Usenet Newsgroup Archive: rec.radio.amateur.space

2008

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Date span: 2008-01-01 through 2008-12-28

Source text: rec.radio.amateur.space.txt

Source item: https://archive.org/details/usenet-rec

Messages included in this PDF: 219

Messages are presented chronologically by archived date.

Binary or encoded payloads are not printed as blocks of encoded text; a placeholder appears where such material was detected. The original source text is unchanged.

1. M'I.5,Persecution t he BB C, tel evision an d ra dio

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 08:28:12 UTC
From: fevfmfemf@lycos.com
Message-ID: <tc0800010828114578@4ax.com>
Source record: 931
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= the BBC, television and radio. -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

The first. incident in June 1990 was when a BBC newsreader made what seemed to be a reaction to something which had happened in. my home, and out of context of what. they were reading. My first reaction was disbelief; nothing of the sort had ever happened before, the idea that. such a thing could occur. had not crossed my mind, yet there was no doubt of what had just taken place. My disbelief eroded as this recurred. time after time. Besides the news, offenders included shows such as. Crimewatch (!), Newsnight, and "entertainment" shows. There seems to be very little. moral understanding among the people who make these programmes; they. just assume they will never be caught, so they carry on without. a thought for the illegality or amorality of what they do. The only time I. ever heard a word raised in doubt was by Paxman being interviewed. by someone else (I think by Clive Anderson) back in. 1990; referring to the "watching" he said it troubled him, and when asked by the host what you could do about it, replied. "Well, you could just switch it off". (meaning the surveillance monitor in the studio). He clearly didn't let his doubts stand in the. way of continued surreptitious spying from his. own or other people's shows, though.

Now you're convinced this is a troll,. aren't you? This story has been the subject of much debate on the uk.* Usenet newsgroups for over. a year, and some readers believe it to be. an invention (it has even been suggested that a group of psychology students are responsible!), others think. it symptomatic of a derangement of the author, and a few give it. credence. Quite a few people do know part or all of. the story already, so this text will fill in the. gaps in their knowledge. For the rest, what may persuade you of the third possibility is that some of the incidents. detailed are checkable against any archives of radio. and TV programmes that exist; that the. incidents involve named people (even if those hiding in the shadows have not made their identity or affiliations evident),. and those people may be persuaded to come out with. the truth; and that the campaign of harassment. is continuing today both in the UK and on the American continent, in a none-too-secret fashion;. by its nature the significant risk of exposure. increases with time.

On several occasions people said to my face that harassment from the. TV was happening. On. the first day I worked in Oxford, I spent the evening in the local pub with the company's. technical director Ian, and Phil, another employee. Ian made a few references to. me and said to Phil, as if in an aside, "Is he the bloke who's been. on TV?" to which Phil replied, "Yes, I think. so".

I made a number of efforts to find the bugs, without. success; last year we employed professional counter-surveillance people to scan. for bugs (see later) again without. result. In autumn 1990 I disposed of my TV and watched virtually no. television for the next three years. But harassment from TV stations has gone on for over six years and continues to this day.. This is something that. many people obviously know is happening; yet the TV staff have the morality of paedophiles,. that because they're getting away with it they feel. no wrong.

Other people who were involved in the. abuse in 1990 were DJs on BBC radio stations, notably. disc jockeys from Radio 1 and other stations (see the following section). Again, since. they don't have sense in the first place they can't be expect to have. the moral sense not to be part of criminal harassment.

554

2. M'I`5 Persec ution ' b ugging and cou nter-surveillance

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 08:55:10 UTC
From: imivifmv@lycos.com
Message-ID: <be0800010855108530@4ax.com>
Source record: 932
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-
-= MI5: bugging. and counter-surveillance -=
-=-

PO: >Did you ever look for the bugs in your house ?. If not, why not ? I mean if
PO: >I thought that was happening to me, I'd search. the place from top to bottom,
PO: >I mean I live there I. would know if anything was out of place. If I was
PO: >really suspicious, I. would call in one of those bug detection teams which
PO: >have those. machines that pick up the transmitted radio waves. This
PO: >reminds me of BUGS, that new programme on BBC1. on

That's exactly what we did. We went to a competent, professional. detective
agency in London, paid them over. 400 quid to debug our house. They used
scanner. devices which go to over 1 GHz and would pick up any nearby
transmitter in that range,. they also checked the phones and found
nothing... but if the tap was at. the exchange, then they wouldn't find
anything, would. they?

CS: >Doesn't this suggest to you that there. are, in fact, no bugs to be found?

You can assume that they've done this sort of thing to other. people in more
"serious". cases, where they would know the targets would suspect the
presence of electronic surveillance. So they. will have developed techniques
and devices which are not readily detectable either by. visual inspection or
by electronic means. What those techniques. might be, I couldn't guess.

In this case, the. existence of bugging devices was clear from the
beginning, and they "rubbed it in". with what was said by the boy on the
coach. It was almost as if they. wanted counter-surveillance people to be
called in, who they knew would fail to detect the. bugging devices, causing
loss. of credibility to the other things I would have to say relating to the
harassment.

I did all the things someone in my situation would do to try. to find the
bugs. In addition to calling in professional help. using electronic
counter-surveillance, I. made a close visual inspection of electrical
equipment,. plus any points where audio or video surveillance devices might
have. been concealed. Of course, I found nothing. Normal surveillance
"mini-cameras" are quite noticeable and require. visible supporting
circuitry. It seems to me the best place to put a small. video surveillance
device would be additional to a piece of. electronic equipment such as a TV
or video. It would be necessary. to physically break in to a property to fit
such. a device.

2984

3. M-I 5.Pe rsecution . Ca pital Ra dio - Chr is Ta rrant

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 09:21:40 UTC
From: fimieief@lycos.com
Message-ID: <lu0800010921395144@4ax.com>
Source record: 933
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
-= Capital Radio - Chris Tarrant. -=
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Capital Radio DJs have been "in on it" from the start. One of. the first things I heard in the summer. of 1990 was from a Capital DJ who said, "If he listens to Capital then he can't be. all bad" (supportive, you see. We're not bastards). Much of what came over the radio in 1990 is now. so far away the precise. details have been obliterated by time. No diary was kept of the details, and although archives if they. exist may give pointers, the ambiguity of what broadcasters said. would leave that open to re-interpretation.

In spring 1994, Chris Tarrant on his Capital. morning show made an aside to someone else in the studio, about a person he didn't identify.. He said, "You know this bloke? He says we're trying to kill. him. We should be done for. attempted manslaughter".

That mirrored something I. had said a day or two before. What Tarrant said was understood by. the staff member in the studio he was saying it to; they said, "Oh no, don't say that" to Tarrant. If any archives. exist of the morning show (probably unlikely) then. it could be found there; what he said was so out of context. that he would be very hard put to find an explanation. A. couple of days later, someone at the site where I was working repeated the remark although in a different way; they said. there had been people in a computer room when automatic fire extinguishers went off and. those people were "thinking of suing. for attempted manslaughter".

Finally, this isn't confined to the established. radio stations. In 1990 after I had listened to a pirate radio station. in South London for about half an hour, there was an audible phone call. in the background, followed by total silence for. a few moments, then shrieks of laughter. "So what are we. supposed to say now? Deadly torture? He's going to talk to us now, isn't he?", which meant that they could hear what I would say. in my room.

5414

4. M,I.5'Persecutio n c ost of the operati on

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 09:47:48 UTC
From: vfivf@lycos.com
Message-ID: <mp0800010947473895@4ax.com>
Source record: 934
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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-= MI5: cost of the operation. -=
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Here's what a couple of. other people on Usenet (uk.misc) had to say
regarding the cost. of running such an operation...

PO: >Have some sense, grow up and smell reality. What. you are talking about
PO: >would take. loads of planning, tens of thousands of pounds and lots of
PO: >people involved in. the planning, execution and maintenance of it. You
PO: >must have a very high. opinion of yourself to think you are worth it.

PM: >But why? And why you? Do you realize how much it would cost. to keep
PM: >one person under. continuous surveillance for five years? Think about
PM: >all the man/hours. Say they _just_. allocated a two man team and a
PM: >supervisor.. OK., Supervisor's salary, say, #30,000 a year. Two men,
PM: >#20,000 a year each. But they'd need to work in shifts. -- so it would
PM: >be six men. at #20,000 (which with on-costs would work out at more like
PM: >#30,000. to the employer.)
PM:. >
PM: >So,. we're talking #30,000 x 6. #180,000. plus say, #40,000 for the
PM: >supervisor. #220,000. Then you've got. the hardware involved. And
PM: >any. transcription that needs doing. You don't think the 'Big Boss'
PM: >would. listen to hours and hours of tapes, do you.
PM:. >
PM: >So, all in all, you couldn't actually do the. job for much less than
PM: >a quarter million a year. Over five years. What are you doing. that makes
PM: >it worth the while of the state to. spend over one and a quarter million
PM:. >on you?

Those are pretty much. the sort of calculations that went through my head
once I stopped. to consider what it must be costing them to run this
operation. The partial answer is, there have been. periods when the
intensity. has been greater, and times when little has happened. In fact,
for much of 1993. and the first half of 1994, very little happened. Although
I don't think that was for reasons of money - if they can tap. into the
taxpayer they're not going to be short of resources, are. they?

The more complete answer is in the enormity of what they're. doing. Relative
to the cost to British pride of seeing their country humiliated for. the
persecution of their own citizens, isn't is worth the cost of four. or five
people to try to bring things to. a close in the manner they would wish? To
the government a million or two. is quite honestly nothing - if they can
convince themselves of the necessity of what they're. doing, resources will
not. be the limiting factor.

7844

5. M'I`5 Per secution ' ho w a nd w hy d id it s tart?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 10:17:44 UTC
From: feifemvmi@lycos.com
Message-ID: <sp0800011017436049@4ax.com>
Source record: 935
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
-= how. and why did it start? -=
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The harassment didn't start by. itself, so someone must have been there at the outset to give it a firm push and set the "animals" after me. It. looks as if I. was set up in June 1990, and the timing indicates someone from university was. responsible.

>One thing which has. been missing from this discussion is this simple
>prognosis: that maybe he. is right and that, despite his admitted
>mental condition, there really is a campaign. against him organised by
>now-influential ex-students of his. university.

In May or June 1990, Alan Freeman on Radio 1 read out a letter. from someone who had known me for a. few years, who wrote of the one who "wore out his welcome with random precision" (from the Pink. Floyd song). Freeman went on to say to the writer "that's. a hell of a letter you wrote there". The indication is strongly that people I had parted from. soon before nursed a grudge against me and were trying to cause trouble for. me.

The suggestion is that Freeman might have shown the letter to. other people, and things could have. snowballed from there. Right from the start the real source (security services presumed) didn't. announce themselves as the origin, but let the "talkers", the radio DJs, believe that. they were the originators. Think about it; if you announce,. "we're MI5 and we have a campaign against this bloke" then people might not go along with it; but. if you say, "everyone else is getting at this bloke. because he 'deserves' it" then people will join in with fewer. qualms.

>Why would "they". wish to assassinate your character?

It's the classic case. of hitting a cripple to prove you're stronger. Why would the security services expend hundreds of. thousands of pounds and more than six years of manpower to try to kill a British citizen?. Because they are motivated by people who knew me at university and feel. personal animosity; because they knew me to be emotionally weak, and it is in. the nature of bullies to prey on those known to be weak; and because. they can rely on the complicity of the establishment, which the security. services manipulate and derive funding from. This is. England's biggest humiliation today, and the British. security services are intent on preventing their humiliation becoming reality by continuing. their campaign of attempted murder to suppress the truth from becoming. public.

10274

6. M'I`5,Persecu tion ' h ow an d wh y di d it sta rt?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 10:48:20 UTC
From: mievmef@lycos.com
Message-ID: <cf0800011048197689@4ax.com>
Source record: 936
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
-= how. and why did it start? -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

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554

7. M-I,5`Perse cution - wh o knows abo ut it ?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 11:44:29 UTC
From: mefem@lycos.com
Message-ID: <du0800011144284772@4ax.com>
Source record: 937
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=-=-=-=-=-=-=-=-=-
-= who knows. about it? =-
-=-=-=-=-=-=-=-=-=-=-=-

Many people know, both in the. establishment and media, and among the general public. Despite an absence. of its target from the UK for more than two years, the echoes of paranoia can still be heard loud and. clear from across the water. When it started in 1990,. the only people who knew were those in BBC television who were spying on my home, and. a few radio broadcasters. There. were a few cases of public harassment, but very little compared. to the situation that developed a couple of years later.

The. list today includes BBC TV staff (newsreaders such as Martyn Lewis, Michael Buerk, Nicholas Witchell), people from radio stations. such as Chris Tarrant of Capital and. Radio 1 DJs, people in the print media, but also many people in the general public. All united. in a conspiracy which breaks the laws which the UK does have regarding. harassment, and all completely uncaring for any semblance of. decency or elementary respect for individual. rights.

The British police (obviously) do know the nature of. the harassment and in all probability the. identity of those behind it. Some time ago I made a complaint to my local police. station in London, without positive result. The UK police are failing in their duty. to see the law enforced in not checking. the abuse.

2984

8. M,I`5'P ersecution B ernard Levi n ex presses his v iews

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 12:15:57 UTC
From: fvifefi@lycos.com
Message-ID: <wj0800011215562029@4ax.com>
Source record: 938
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

The article. of which part is reproduced below was penned by Bernard Levin for the Features. section of the Times on 21 September 1991. To my mind, it described the situation at the time and in particular a recent meeting. with a friend, during which I. for the first time admitted to someone other than my GP that I had been. subjected to a conspiracy of harassment over the previous year and. a half.

>There is a madman. running loose about London, called David Campbell; I have
>no reason to believe that he is violent, but. he should certainly be
>approached with. caution. You may know him by the curious glitter in his
>eyes and a persistent trembling of his hands;. if that does not suffice, you
>will find him attempting to thrust. no fewer than 48 books into your arms,
>all. hardbacks, with a promise that, if you should return to the same
>meeting-place next year, he will. heave another 80 at you.
>
>If,. by now, the police have arrived and are keeping a close watch on him,
>you may feel sufficiently emboldened to examine. the books. The jackets are
>a model of uncluttered typography, elegantly and simply laid out;. there is
>an unobtrusive. colophon of a rising sun, probably not picked at random.
>Gaining confidence - the lunatic is smiling by now, and the. policemen, who
>know about such things, have significantly removed their helmets -. you
>could do worse than take the jacket off the first book. in the pile. The
>only word possible to describe the. binding is sumptuous; real cloth in a
>glorious shade of dark. green, with the title and author in black and gold
>on the. spine.
>
>Look at it more closely;. your eyes do not deceive you - it truly does have
>real top-bands and tail-bands, in yellow,. and, for good measure, a silk
>marker ribbon in a lighter. green. The paper is cream-wove and acid-free,
>and the. book is sewn, not glued.
>
>Throughout the encounter, I should have mentioned,. our loony has been
>chattering away, although what he is trying to say is. almost impossible to
>understand; after a time, however,. he becomes sufficiently coherent to make
>clear that he is trying to sell the books to you. Well, now, such. quality
>in bookmaking today can. only be for collectors' limited editions at a
>fearsome. price - #30, #40, #50?
>
>No, no, he says, the glitter more powerful than ever and. the trembling of
>his hands rapidly spreading throughout his entire body;. no, no - the books
>are priced variously at #7,. #8 or #9, with the top price #12.
>
>At this, the policemen understandably put their helmets. back on; one of

>them draws his truncheon and the other can be. heard summoning
>reinforcements on. his walkie-talkie. The madman bursts into tears, and
>swears. it is all true.
>
>And it. is.
>
>David Campbell has acquired the entire rights to. the whole of the
>Everyman's Library, which died a lingering and shameful death a. decade or
>so. ago, and he proposes to start it all over again - 48 volumes this
>September and 80 more next year,. in editions I have described, at the
>prices specified. He proposes to launch his. amazing venture simultaneously
>in Britain and the United States, with. the massive firepower of Random
>Century at his back in. this country, and the dashing cavalry of Knopf
>across the water, and no one. who loves literature and courage will forbear
>to. cheer.

At the time this. article was written I had believed for some time that columnists in the Times and other. journalists had been making references to my situation. Nothing unusual about this you may think, plenty of. people have the same sort of ideas and. obviously the papers aren't writing about them, so why should. my beliefs not be as false as those of others?

What makes this article so extraordinary is that three or four. days immediately preceding its publication, I had a meeting with a. friend, during the course. of which we discussed the media persecution, and in particular that by. Times columnists. It seemed to me, reading the article by Levin in Saturday's paper,. that he was describing in some detail his "artist's impression" of. that meeting. Most telling are the final sentences, when he writes, "The madman bursts. into tears, and swears it is all true. And it is." Although I. did not "burst into tears" (he seems to be using a bit of poetic licence and. exaggerating) I did try hard to convince my friend that it was all true; and I am able to concur. with Mr Levin, because, of course,. it is.

At the beginning of the piece. Levin reveals a fear of being attacked by the "irrational" subject of his story, saying "I have no. reason to believe that he is violent, but he should certainly be approached. with caution". This goes. back to the xenophobic propaganda of "defence" against a "threat" which. was seen at the very beginning of the harassment. The impression of a "madman running loose" who needs. to be controlled through an agency which assigns to itself the mantle. of the "police" is also one which had been expressed. elsewhere.

In the final paragraph of this. extract, his reference to Everyman's Library as having "died a lingering and shameful death a. decade or so ago" shows clearly what sort of conclusion they. wish to their campaign. They want a permanent solution, and as they are prevented. from achieving that solution directly,. they waste significant resources on methods which have been repeatedly. shown to be ineffective for such a purpose.

5414

9. M'I-5'Persecu tion ' Berna rd Lev in expresses his vi ews

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 12:59:29 UTC
From: vieme@lycos.com
Message-ID: <aj0800011259298203@4ax.com>
Source record: 939
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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>only word possible to. describe the binding is sumptuous; real cloth in a
>glorious. shade of dark green, with the title and author in black and gold
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>real top-bands and tail-bands, in yellow, and,. for good measure, a silk
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At the time this article was written I had. believed for some time that columnists in the Times and. other journalists had been making references to my situation. Nothing unusual about this you may think,. plenty of people have the same sort of. ideas and obviously the papers aren't writing about them, so why should my beliefs not. be as false as those of others?

What makes this article so extraordinary is that. three or four days immediately preceding its publication,. I had a meeting with a friend, during the course of which we discussed the media persecution, and. in particular that by. Times columnists. It seemed to me, reading the article by Levin in. Saturday's paper, that he was describing in some detail his "artist's impression" of that meeting. Most telling are the. final sentences, when he writes, "The. madman bursts into tears, and swears it is all. true. And it is." Although I did not "burst into tears" (he seems to be using a bit of poetic licence. and exaggerating) I did try hard to convince my friend that it was all. true; and I am able to concur with Mr Levin, because,. of course, it is.

At the beginning of the piece Levin reveals a fear of being. attacked by the "irrational" subject of his story, saying "I have no reason to. believe that he is violent, but he should. certainly be approached with caution". This goes back to the xenophobic propaganda of. "defence" against a "threat" which was seen at the very beginning of the. harassment. The impression of a "madman running loose" who needs to be controlled through an agency. which assigns to itself the mantle of. the "police" is also one which had been expressed. elsewhere.

In the. final paragraph of this extract, his reference to Everyman's Library as having "died a lingering and shameful death a decade or so. ago" shows clearly what sort of conclusion they wish to their campaign. They want. a permanent solution, and as they are prevented from achieving. that solution directly, they waste significant resources on methods which. have been repeatedly shown to be ineffective for such. a purpose.

554

10. M I.5 Persecutio n , w hy wo n't th e Briti sh polic e do their jo b and pu t a stop to i t?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 13:34:09 UTC
From: emveiefev@lycos.com
Message-ID: <nq0800011334086348@4ax.com>
Source record: 940
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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-= why won't the British police do their job and put. a stop to it? -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
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The British police obviously. do know what is taking place. Besides my interpretations of what. individual officers have said which forces that conclusion, it would be inconceivable for. them to be unaware of something on this. scale.

If they know, then they will know. that the abusers have broken laws in the UK and abroad. Recently the UK introduced laws. against electronic spying which carry. a penalty of several years jail if caught. If the police know illegal harassment. is taking place, and do nothing about it, then they are failing in their. responsibilities.

Last Easter (1995). I went into the local police station in London and spoke to an officer about. the harassment against me. But I couldn't provide tangible evidence; what people said, in many cases. years ago, is beyond proof, and. without something to support my statements I cannot expect a police officer to take. the complaint seriously.

The current situation with. regard to the police is not one which allows a breakthrough. in dealing with the problem. On the one hand, most individual officers at a local police station may not know about the. ongoing assaults, so a. complaint at that level will not yield results. Yet the police as an organisation do know of the. harassment, and they must be aware that a complaint has been made at a police station. So it. is clearly their duty to take preventative action. against the continuing molestation, but because the criminals are operating on behalf of a state agency, the police are. not carrying out their. duty.

2984

11. M,I.5,Persecution wh y wo n't the B ritish polic e do the ir j ob a nd pu t a stop to it?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 13:45:10 UTC
From: vmvfvieiv@lycos.com
Message-ID: <pk0800011345094562@4ax.com>
Source record: 941
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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-= why. won't the British police do their job and put a stop to it? -=
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554

12. M,I`5'Persecu tion , wh y w on't the Br itish polic e do t heir j ob a nd pu t a st op to i t?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 14:11:38 UTC
From: fivifmeie@lycos.com
Message-ID: <ts0800011411370198@4ax.com>
Source record: 942
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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-=. why won't the British police do their job and put a stop to it? -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
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554

13. M'I-5'Per secution a buse in set-up situati ons a nd in p ublic

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 14:40:10 UTC
From: mvief@lycos.com
Message-ID: <ef0800011440098207@4ax.com>
Source record: 943
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-
-= abuse in set-up situations and. in public -=
-=-

Strangers in the street have recognized me on sight many times,. and shown awareness of the current thread of abuse. To give you one. example, in 1992 I was seriously ill, and. a manager at work somewhat humorously said that "it wasn't fair" that. people were bullying me. A few days later, I attended for the. first time a clinic in London as an outpatient, and on my way out was accosted by someone who asked if "they. had paid my fare", with emphasis on. the word "fare". He repeated the word several times in this different context; that they should have paid my "fare", each. time emphasizing the word.

For two and a half years from the time their harassment. started until November 1992 I refused to see a psychiatrist, because I reasoned that. I was. not ill of my own action or fault, but through the stress caused by harassment, and that a lessening of. the illness would have to be consequent to a removal of its immediate cause, in other words a. cessation of harassment. I also. reasoned that since they were taunting me with jokes about mental illness, if I. were to seek treatment then the abusers would think that they had. "won" and been proved "right". Remember, the constant theme of any persecution is, "we must destroy. you because you're X", whether X is a racial or other attribute. In this. case the X was "we persecute. you because you have brain disease". The similarity of this logic to Nazi. attitudes to the mentally ill is striking.

The same manager who'd said "it wasn't fair" asked me in winter 1992. why I didn't seek help from a psychiatrist; was it,. he asked, because "they would think they had won" if. I sought treatment? That was something I'd never said at work... again, taken separately it proves nothing, but. many such things over a period of months. proves conclusively that people in the company knew what was going on, and in quite a lot of. detail.

Usually harassment in. public lacks the level of finesse of "paying your fare". Most people's imagination. does not go beyond moronic parroting of the current term of denigration. That is not surprising given the. average level of the abusers; if they do not. have the intelligence to distinguish wrong from. right then neither will they have the capacity for anything other than mindless repetition of a monosyllabic term. calculated to fit into. their minds.

The first incidents of verbal assault in. public were in again in the summer of 1990, although they increased in frequency and venom. with time. In July 1990 the. first public incident occurred on a tube train on the Northern

line. Two men and their girlfriends recognised me; the women sprang. to my defence, saying. "He looks perfectly normal, he doesn't look ill". Their boyfriends of course knew better, and followed the party. line; one of them made reference to an "operation", apparently to work at. the tube station but. implicitly to a visit that I had made to hospital a couple of weeks previously.

In August. 1990 going home from college, soon after getting on a tube train at Gloucester Road I was. followed by a group of four youths, who started a chant of abuse. That they were. targeting me was confirmed by other people in the carriage, one of whom asked the other "who. are they going on at, is it the bloke who. just got on?" to which the second replied "yes, I think so". I was. tempted to reply, but as in every other instance the abusers are enabled. in their cowardice by physically outnumbering the abused; any confrontation would result in my being beaten up, followed by a. complaint to the police that "he attacked. us", and of course he's ill, so he must have been. imagining that we were getting at him. Shitty, aren't they?

But the. shittiness of the four youths on the tube train is as nothing compared to the episode on the National Express coach to Dover. in the summer of 1992. While going on holiday. to the Continent I was verbally set upon. by a couple travelling sitting a few rows behind. The boy did the talking,. his female companion contributing only a continuous empty giggling noise. He spoke loudly to ensure other. people on the coach heard, always about "they" and "this. bloke" but never naming either the abusers or the person he was talking about.. He said "they" had "found somebody from his school, and he was always really. stressed at school". They must have dug deep to find enemies there;. perhaps someone who dropped out of school, someone who didn't do too well later, who was jealous and keen to get. their own back? The boy also said "he was in a bed and breakfast for. only one night and they got him". By a not unexpected coincidence I had. been in a B&B in Oxford a week previously, which. had been booked from work; other things lead me to the conclusion that the company's offices were bugged. for most of the 2 1/2 years that I was. there, so "they" would have known a room in the B&B had been booked. (But I'll bet "they". didn't tell the company's managers their offices were bugged,. did they?).

After a few minutes of this I went. back to where they were sitting and asked. where they were travelling. The boy named a village in France, and the girl's giggling suddenly ceased; presumably it permeated to her. brain cell what the. purpose of the boy's abuse was.

This and. other set-up situations are obviously calculated to provoke a direct confrontation which would bring in the. police, with the abusers claiming that they were the. ones attacked. Again in 1992, outside the house where I was living in Oxford I. was physically attacked by someone - not punched, just grabbed by the coat, with some verbals thrown in for. good measure. That was. something the people at work shouldn't have known about... but soon after a couple of people were. talking right in front of me about, "I. heard he was attacked". The UK police have a responsibility for preventing assault occurring, but they do not seem to take any. interest

in meeting that. responsibility. I suppose their attitude is that harassment does not come within. their remit unless it involves physical assault, and they will only become involved once that happens. That is of. course quite the wrong attitude for them to take, but as I now. understand, the police investigate only the crime they wish to investigate; if. they do not take your complaints. seriously then there is nothing you can do to make them take. action.

2984

14. M`I 5-Perse cution ` p urpose in publicizi ng it; censors hip in uk .* newsgro ups

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 15:12:29 UTC
From: imimif@lycos.com
Message-ID: <fi0800011512284308@4ax.com>
Source record: 944
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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15. M-I 5-Persecution ` my respon se to the ha rassment

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 15:40:11 UTC
From: memiefi@lycos.com
Message-ID: <sv0800011540103075@4ax.com>
Source record: 945
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-
-=. my response to the harassment -=
-=-

My first reaction in 1990/91 was to assume that if. I broke contact then they would not be able to follow and would. lose interest. So I did the things that have been. suggested by other people; I sold my television, stopped. listening to the radio and tried to withdraw away from the sources of abuse. as much as possible. I reasoned that they must have more important things to deal with and that normal people would simply leave me. alone if it were made difficult for them to. continue their harassment.

I reckoned without the sheer. vindictiveness of the abusers. They did not let up but instead "got to" people around. me, mainly people at work, to do their dirty work for them. I went. to see my GP, who refused to believe what he was being told, and refused to. direct me on to anyone who could be of practical assistance. It was not. until three years had passed that the GP admitted the matter was outside his competence. and suggested going to the police.

In the. summer of 1994 we called in counter-surveillance experts from a private detective agency to sweep our. house and telephone for bugging devices. They. conducted a thorough search and found nothing; but as noted above, since the existence of surveillance. was being forced in my face by the harassers, you would expect them to. have taken the possibility of a counter-surveillance sweep. into account when planning the type of devices to. be employed.

In Easter 1995 I made a complaint to my local Police station. in London, but the police. have not expressed any intention to do anything about the continuing harassment. ("we're not saying it's happening and we're not saying it isn't happening" were. the words used). I think the officer I spoke to. at Easter wasn't aware of it happening, although other members of the police force obviously. do know.

From April 1995 until the present time. the matter has been discussed in a lot. of detail on the Usenet (Internet) "uk.misc" newsgroup. That discussion has given birth to the article which you are. now reading. My hopes in posting. to Usenet were that wider publicizing would discourage the security services from continuing. their harassment, and "draw people out" into concurring with the truth of. what was being said. Neither of those have followed, but the discussion has served a purpose in allowing. this structured report to. be created.

7844

16. M,I.5'Pers ecution , th eir meth ods an d tact ics

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 16:07:56 UTC
From: emfvivmiv@lycos.com
Message-ID: <xk0800011607558970@4ax.com>
Source record: 946
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=

17. ANS-364 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-01-01 16:13:28 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501c84c91$1039c710$6601a8c0@familyroom>
Source record: 947
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-364

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* 2008 Straight Key Night on OSCAR in Memory of ex-JA1ANG
* AMSAT Orbital Classroom Concept Study Announced
* KiwiSAT Status Update From New Zealand
* AMSAT Awards
* ARISS Status Report for the Week of December 24, 2007
* ANDE Satellite De-Orbits

SB SAT @ AMSAT $ANS-364.01
2008 Straight Key Night on OSCAR in Memory of ex-JA1ANG

AMSAT News Service Bulletin 364.01
>From AMSAT HQ SILVER SPRING, MD.
December 30, 2007
To All RADIO AMATEURS
BID: $ANS-364.01

You are cordially invited to take part in Straight Key Night on OSCAR 2008, sponsored by AMSAT for all radio amateurs throughout the world. This year's event will be held in memory of Haruo (Harry) Yoneda, ex-JA1ANG, a past AMSAT Director and co-founder of JAMSAT. Harry was also a keen CW operator and a past member of the First Class CW Operators Club (FOC).

Participating in OSCAR SKN is fun and simple. No scoring and no need to send in a log. Just operate CW through any OSCAR, using a straight hand key, at any time between 0000 and 2400 UTC on January 1, 2008.

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for Best Fist. Your nominee need not have the best fist you heard, just the best of those you worked. Please send your nomination to W2RS at w2rs@amsat.org.

Those nominated will be recognized in an AMSAT News Service bulletin,
and in The AMSAT Journal.

[ANS thanks Ray, W2RS for the above information]

/EX

SB SAT @ AMSAT $ANS-364.02
AMSAT Orbital Classroom Concept Study Announced

AMSAT News Service Bulletin 364.02
>From AMSAT HQ SILVER SPRING, MD.
December 30, 2007
To All RADIO AMATEURS
BID: $ANS-364.02

Stefan, VE4NSA has been asked to organize and coordinate an amateur
radio space communications training concept called the "Orbital
Classroom". Stefan said, "Here is an opportunity for AMSAT members
to voice their needs for education. We are listening and working
on this."

Stefan asks interested AMSAT members to send him your answers to
these questions via e-mail (ve4nsa@amsat.org).

1. Would you be interested in attending pre-conference courses and
workshops as part of the annual meeting or at other venues?

2. Would you be willing to pay a registration fee that would cover
course material, instructor cost etc.?

3. Would you be interested in receiving a certificate for ongoing
education as it relates to amateur radio and satellites?

4. What topics would you like to see taught at such courses?

5. Would you be willing in helping to organize and facilitate courses
(you don't have to teach for this one, just help the instructor and
take care of registration, etc)?

6. Would you be willing to teach a course and if yes, on which topics?

Stefan concludes, "That's a start and hopefully it sparks your interest
as a participant, facilitator or instructor. As always, your opinion counts
and even more your help is greatly appreciated."

[ANS thanks Stefan, VE4NSA for the above information]

/EX

SB SAT @ AMSAT $ANS-364.03
KiwiSAT Status Update From New Zealand

AMSAT News Service Bulletin 364.03
>From AMSAT HQ SILVER SPRING, MD.
December 30, 2007

To All RADIO AMATEURS
BID: $ANS-364.03

This week Terry, ZL3QL, President AMSAT-ZL, provided AMSAT members with a summary of the New Zealand KiwiSAT project.

KiwiSAT is a Microsat scheduled for launch into a LEO, will carry FM and Linear transponders with inputs on 70 cm & 23 cm - outputting on 2 meters. A unique feature will be the on-board Small Satellite Attitude Control scientific experiment. It will also carry a special environmental global warming scientific unit.

Over the years AMSAT-ZL has contributed some $10,000 to Phase 3 and UoSAT programs. Now they are getting on with completing KiwiSAT for your amateur radio enjoyment. (See http://www.kiwisat.org)

Terry says, "We want this to be a truly radio amateur satellite and while we could get some extra sponsorship, which we will do for the launch, the satellite itself needs to be completed using amateur radio resources and amateur radio money. So far our investment is some US$15,000 cash and perhaps US$100,000 in time and effort. We have a further US$12,000 in the bank reserved towards the cost of the solar cells which are estimated to cost US$30,000."

The KiwiSAT team spends a lot of time looking for economy without engineering compromise thus this is a real cost effective satellite. They have abandoned purchasing ready made modules and opted for self design and construction. In some areas we have had to use professional services such as SMD handing which is limited by our standard ham-shack tools and techniques. However we have made much of the test equipment ourselves - including the thermal vacuum chamber.

To finish the satellite to flight-ready status, (less solar cells) KiwiSAT needs to raise about $10,000, which is about what we have given to other projects. So if you agree that its pay-back time, and you like what they are doing, perhaps you might like to contribute to this venture into space.

You can contribute large or small, direct or via PayPal, just visit our informative website at http://www.kiwisat.org, all help is greatly appreciated. Be assured your contribution will be thankfully received and faithfully applied.

Terry concludes,"Our grateful thanks to those who have already made a commitment to supporting this project. What a great time to help and what a great Yuletide gift to a worthy cause."

[ANS thanks Terry, ZL3QL for the above information]

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SB SAT @ AMSAT $ANS-364.04
AMSAT Awards

AMSAT News Service Bulletin 364.04
>From AMSAT HQ SILVER SPRING, MD.
December 30, 2007
To All RADIO AMATEURS
BID: $ANS-364.04

Bruce Paige, KK5DO, AMSAT Director Contests and Awards has issued the last awards for 2007.

We would like to welcome the following to the satellite community. They have made their first satellite contact and are now members of the AMSAT Satellite Communicators Club:
Jeremy Ramirez KB9QIC
Charles Doolittle N1SPX
Jose Vitor Toste CU3EQ

AMSAT Communication Achievement Award
John Henderson N4NAB, #456
Charles Doolittle N1SPX, #457

South Africa AMSAT Communication Achievement Award
John Henderson N4NAB, US115
Charles Doolittle N1SPX, US116

To see all the awards visit http://www.amsat.org.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-364.05
ARISS Status Report for the Week of December 24, 2007

AMSAT News Service Bulletin 364.05
>From AMSAT HQ SILVER SPRING, MD.
December 30, 2007
To All RADIO AMATEURS
BID: $ANS-364.05

1. ARISS Contact with Russian School

The ARISS contact was not successful with the 15 Korolev City School in Korolev, Russia on Thursday, December 27 and will be rescheduled. Fifth graders will speak with flight engineer Yuri Makenchenko, RK3DUP.

2. ARISS International Team Meeting Held

The monthly ARISS teleconference was held on Tuesday, December 18. The topics discussed included the 2008 Face to Face Meeting to be held in Moscow, Russia, the progress being made on SuitSat-2 and the Kenwood radio software reload status. Minutes will be posted to the ARISS Web site in the near future.

3. Astronaut Gives Talk on ARISS at AMRASE Conference

The first AMRASE International Aerospace Research Conference was held on December 8 in Rio de Janeiro. Brazilian astronaut Marcos Pontes was one of the speakers at the meeting. Pontes gave a presentation on his training and his participation in the Centenario Mission onboard the ISS. He also talked about the importance the ARISS program plays in the education of youth. See: http://www.amrase.org/english.html

[ANS thanks Carol, KB3LKI for the above information]

/EX

SB SAT @ AMSAT $ANS-364.06
ANDE Satellite De-Orbits

AMSAT News Service Bulletin 364.06
>From AMSAT HQ SILVER SPRING, MD.
December 30, 2007
To All RADIO AMATEURS
BID: $ANS-364.06

Henk, PA3GUO reminds everyone of the special ANDE de-Orbit AWARD available for everyone who makes a QSO via ANDE or receives telemetry during its final days in space. Bob, WB4APR, will set the official date/time of de-orbit. E-mail a copy of your final ANDE packets to Henk at pa3guo@amsat.org.

ANDE was no longer copied on December 25, 2007. Mike, DK3WN reported the last packet from ANDE was received by by JA0CAW on December 24, 2007 at 22:27 UTC:

Fm ANDE-1 To APRS1 Via SGATE <UI pid=F0 Len=72 >[22:27:08]
:BLN1ANDE :ANDE-1 only wakes up 1 of evry 15s for users. Pse conserve.
Fm ANDE-1 To BEACON <UI pid=F0 Len=39 >[22:27:43]
T#001,145,132,135,135,137,10101111,000

[ANS thanks Henk, PA3GUO and Mike, DK3WN for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

18. M-I 5`P ersecution . thei r method s an d t actics

Newsgroup: rec.radio.amateur.space
Date: 2008-01-02 08:11:49 UTC
From: meifem@gmail.com
Message-ID: <zo0800020811479952@4ax.com>
Source record: 948
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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19. M-I,5-Persecut ion ` w hy t he secu rity ser vices?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-02 09:31:08 UTC
From: vifefi@gmail.com
Message-ID: <ps0800020931055504@4ax.com>
Source record: 949
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

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-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
-= why the security services?. -=
-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
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You may. ask, why do I think the "they" referred to are the security services? Is there any evidence that there is a single source, as. opposed to a loosely based "whispering campaign" amongst many. people? Even if there is a. single source, is there any evidence that "they" are professional "buggers" as opposed to amateurs, or perhaps people working for a. privately funded. organization?

a) As to the question. of a single source versus something more fragmented; it is quite obvious. that there is a single source from the way the campaign has been carried out. Since things have been repeated. verbatim which were said in my home, there must be one group which does. the watching and listening. Since on several. occasions (mainly during travel) people have been planted in close proximity and rehearsed in what. they were to say, it follows that someone must have done the planning for that, and. again a single source. is indicated.

b). So why couldn't it be amateurs? Why couldn't it be a private organisation, for example a private detective. agency paid to manage the campaign and undertake the technical aspects? Some. detective agencies are unscrupulous as has been. proved on the occasions in the past when they've been exposed or caught; they. too can have access to the bugging technology deployed; and there are reported cases. of MI5 paying private eyes to do their dirty work (against peace campaigners and similar enemies. of the state) on the understanding. that if they were caught then they could deny all knowledge. Why couldn't that be. the case?

The main. factor pointing to direct security service involvement (as opposed to amateurs or. MI5 proxies) is the breadth of their access to the media in particular, and the fact that the television companies are. so involved in the campaign. The. BBC would not directly invade someone's home themselves, since it. would not be within their remit to allocate personnel or financial resources. to do so. An organisation of their stature would not take part in a campaign set up. by private sources. The only people they would take material from would be the. security services, presumably on the assumption that if the cat ever flew out of the bag. yowling it would be MI5 who would take. the consequences.

State sponsorship for. these acts of psychological terrorism is also indicated. by duration; support for over six years for a team of three or four people. would be beyond the means and will of most private sources. The viciousness of. the slanders and personal denigration also points to

MI5; they traditionally "protect" the British state from. politicians of the wrong hue by. character assassination, and in this case are using their tried and tested methods to murder. with words an enemy they have invented for. themselves.

And there are precedents.. Diana and Hewitt were alleged to have been filmed "at it" by an Army intelligence team which had operated. in Northern Ireland, these. allegations were made by someone called Jones who had been on the. team. His statements were denied by the defence establishment who tried to character-assassinate by describing him as. the "Jones twins". Funny. how if you tell the truth, then you must be ill, isn't it? Thought only communists. behaved like that?

Hewitt later said that he'd been spoken to. by someone in the army who revealed the existence of. videotapes of him and Diana, and that the tapes would. be published if any attempt was made by them to resume their association.

553

20. M,I`5 Per secution why the sec urity service s?

Newsgroup: rec.radio.amateur.space
Date: 2008-01-02 10:02:35 UTC
From: mevifivei@gmail.com
Message-ID: <fo0800021002339184@4ax.com>
Source record: 950
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-
-= why the security. services? -=
-=-

You may ask,. why do I think the "they" referred to are the security services? Is there. any evidence that there is a single source, as opposed to a loosely based "whispering campaign" amongst many people?. Even if there is. a single source, is there any evidence that "they" are professional "buggers" as opposed to amateurs, or perhaps. people working for a privately funded. organization?

a) As to the question of a single source versus something more. fragmented; it is quite obvious that there is a single. source from the way the campaign has been. carried out. Since things have been repeated verbatim which were said in my home, there must be one group. which does the watching and listening. Since on several occasions (mainly during travel) people. have been planted in close proximity and rehearsed. in what they were to say, it follows that. someone must have done the planning for that, and again a single. source is indicated.

b) So why couldn't it be amateurs? Why. couldn't it be a private organisation, for example a private detective agency paid to. manage the campaign and undertake the technical aspects? Some detective agencies. are unscrupulous as has been proved on the occasions in the past. when they've been exposed or caught;. they too can have access to the bugging technology deployed; and there are reported. cases of MI5 paying private eyes to do their dirty work (against peace campaigners and similar. enemies of the state) on the understanding that if they were caught then they. could deny all knowledge. Why. couldn't that be the case?

The main factor pointing to. direct security service involvement (as opposed to amateurs or MI5 proxies) is the breadth of their. access to the media in particular, and. the fact that the television companies are so involved in the campaign. The BBC would not. directly invade someone's home themselves, since it would not be. within their remit to allocate personnel or financial resources. to do so. An organisation of their stature would not take part in a campaign set up by private sources.. The only people they would take material from would be the security. services, presumably on the assumption that if the cat ever flew out of the. bag yowling it would be MI5 who would take the. consequences.

State sponsorship for these acts of psychological terrorism is. also indicated by duration;. support for over six years for a team of three or four people would be beyond the means and will. of most private sources. The viciousness of the slanders and. personal denigration also points to

MI5;. they traditionally "protect" the British state from politicians of the wrong hue by character assassination, and in this case are using. their tried and tested methods to. murder with words an enemy they have invented for. themselves.

And there are precedents. Diana and Hewitt were alleged to have. been filmed "at it" by an Army intelligence team. which had operated in Northern Ireland, these allegations were made by someone called. Jones who had been on the team. His statements. were denied by the defence establishment who tried to character-assassinate by describing him. as the "Jones twins". Funny how. if you tell the truth, then you must be ill, isn't it? Thought only. communists behaved like that?

Hewitt later said that. he'd been spoken to by someone in the army who revealed the existence of videotapes of him. and Diana, and that the tapes would be published if any attempt was made by them to resume. their association.

553

21. M`I,5.Perse cution . ha rassment at w ork

Newsgroup: rec.radio.amateur.space
Date: 2008-01-02 10:45:14 UTC
From: imvmfvmf@lycos.com
Message-ID: <ox0800021045118461@4ax.com>
Source record: 951
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.cb,rec.radio.scanner,rec.radio.shortwave

-=-=-=-=-=-=-=-=-=-=-=-=
-= harassment. at work -=
-=-=-=-=-=-=-=-=-=-=-=-=

Once I stopped watching television and listening to. the radio at the end of 1990, "they" had to find. other ways of committing abuses. So they took what must be for them a tried and tested route; they get. at you by subversion of those around. you. Since they wouldn't be able to do that with my family or friends, that. meant getting at people in the workplace to be their mouthpieces and do their dirty work. for them.

They supplied my employers in Oxford. with details from what was going on in my private life, and what I and other people had said at my home. and accommodation. in Oxford. So people at work repeated verbatim words which had been said in my. home, and repeated what I'd been doing recently. Often the most trivial things, the ones from your domestic. life, are the ones which. hurt most. One manager in particular at Oxford continuously abused me for ten months with verbal. sexual abuse, swearing, and threats to terminate my employment. After ten months I was forced to seek psychiatric help. and start taking medication, and was away from work for. two months. I spoke later with a solicitor about what had happened at that. company; he advised it was only possible. to take action if you had left the company as a result of harassment, and such an. action would have to be started very soon after leaving.

Over. a year later the same manager picked on another new worker, with even more serious results; that employee tried to commit suicide with. an overdose as a result of the ill-treatment, and was forced to leave. his job. But he didn't take. action against the company, either. Abuse at work is comparable to that. elsewhere in that tangible evidence is difficult to produce, and the abusers will always. have their denials ready when challenged. And even if a court accepts what you say happened,. it still remains to prove that abuse causes. the type of breakdown I had at the end of 1992. In a recent case before a British. court, a former member of the Army brought a case against others who. had maltreated him ten years previously. Although the court accepted that. abuse had occurred, it did not agree that. depressive illness necessarily followed, and denied justice to the. plaintiff.

2974

22. WSR-003 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-01-04 19:37:11 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000d01c84ee0$c7901ad0$6601a8c0@familyroom>
Source record: 952
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-003.S1
WSR 003 Part 1 01/03/2008

AMSAT NEWS SERVICE BULLETIN 003.S1 FROM AMSAT HQ
SILVER SPRING, MD, January 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-003.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[12062007]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational - APRS and BBS

Current Mode: V/v

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[12272007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-003.S2
WSR 003 Part 2 01/03/2008

AMSAT NEWS SERVICE BULLETIN 003.S2 FROM AMSAT HQ
SILVER SPRING, MD, January 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-003.S2

CAPE-1
Catalog Number: 31130

Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[12062007]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Semi-Operational - Telemetry ONLY

Current Mode: /u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM 1200-baud Manchester FSK
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz SSB 1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.025 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[11152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz - OFF
Mode-S Beacon: 2401.500 MHz - OFF

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[010222007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational - APRS and BBS

Current Mode: V/v

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[12272007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-003.S3
WSR 003 Part 3 01/03/2008

AMSAT NEWS SERVICE BULLETIN 003.S3 FROM AMSAT HQ
SILVER SPRING, MD, January 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-003.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====

UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[007162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
[01152007]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089

Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-003.S4
WSR 003 Part 4 01/03/2008

AMSAT NEWS SERVICE BULLETIN 003.S4 FROM AMSAT HQ
SILVER SPRING, MD, January 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-003.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-003.S5
WSR 003 Part 5 01/03/2008

AMSAT NEWS SERVICE BULLETIN 003.S5 FROM AMSAT HQ
SILVER SPRING, MD, January 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-003.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-

mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

23. Radio Meteor Obs. Bull. December 2007 Geminids Ursids

Newsgroup: rec.radio.amateur.space
Date: 2008-01-05 14:01:15 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <vb3vn39fbm3ovuiunvg7m9snbhlp1ia0jo@4ax.com>
Source record: 953
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 173 of December 2007 (75 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0712.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

24. Re: Radio Meteor Obs. Bull. December 2007 Geminids Ursids

Newsgroup: rec.radio.amateur.space
Date: 2008-01-05 21:56:19 UTC
From: canopus56 <canopus56@yahoo.com>
Message-ID: <f5887079-7fcd-4738-9693-7858691fb6f9@j78g2000hsd.googlegroups.com>
Source record: 954
Cross-posted to: rec.radio.amateur.space, sci.astro.amateur

On Jan 5, 7:01 am, Chris Steyaert <observati...@rmob.org> wrote:
> Radio Meteor Observation Bulletin No. 173 of December 2007 (75 K) is available
> now as
> http://visualrmob.free.fr/rmobtext/rmob0712.txt
> More information and the visual presentation of the hourly forward scatter
> counts can be found on
> http://www.rmob.org
> http://radio.data.free.fr
> Chris

Chris, I was interested in getting into radio meteor observing and am looking for some receiver advice for use in the U.S. I preliminary tried with a digital FM receiver and cannot seem to find a useable free frequency in the 88Mhz band.

It seems that ROMB contributers are using ICOM models in the 50mhz band - either a freestanding wideband receiver - or the ICOM PC model. Both are pricey - around 800-1500 USD.

Q1: I was wondering if I would be able to detect meteor radio signals using a cheaper receiver, like the small ALINCO DJ-X7T which comes with a computer interface cable. That only costs around 200 USD.

Q2: In the US, we are now moving to HD TV signals. How does this effect the best frequency used for detecting meteor radio signals?

Thanks, Canopus56

25. Re: Radio Meteor Obs. Bull. December 2007 Geminids Ursids

Newsgroup: rec.radio.amateur.space
Date: 2008-01-05 22:00:55 UTC
From: canopus56 <canopus56@yahoo.com>
Message-ID: <ac455dde-2042-4353-9b14-41a0ceb369c4@r60g2000hsc.googlegroups.com>
Source record: 955
Cross-posted to: rec.radio.amateur.space, sci.astro.amateur

On Jan 5, 2:56 pm, canopus56 <canopu...@yahoo.com> wrote:
> Q1: I was wondering if I would be able to detect meteor radio signals
> using a cheaper receiver, like the small ALINCO DJ-X7T which comes
> with a computer interface cable. That only costs around 200 USD.

P.S. -

Alinco model:
http://www.universal-radio.com/catalog/widerxvr/3077.html

The ICOM PC model:
http://www.universal-radio.com/catalog/widerxvr/2501.html

Any other pointers would be appreciated. - C

26. ANS-006 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-01-08 23:55:20 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001a01c85251$ef68a3a0$6601a8c0@familyroom>
Source record: 956
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-006

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AO-51 Entering Eclipse Free Period
* Best Fist Nominations Due
* South Africa AMSAT Space Symposium Call for Papers
* Satellite Shorts From All Over
* ARISS Status - 31 December 2007

SB SAT @ AMSAT $ANS-006.01
AO-51 Entering Eclipse Free Period

AMSAT News Service Bulletin 006.01
From AMSAT HQ SILVER SPRING, MD.
January 6, 2008
To All RADIO AMATEURS
BID: $ANS-006.01

AO-51 is about to enter a three month period of no eclipse. The command team will be determining the best operating modes and power levels during the first two weeks of January 2008.

There will be no published schedule. The current modes of V/U FM repeater and L/U digital bulletin board may be common, but unpublished mode changes can occur at anytime. Please check the AMSAT BB or the Control Team News area of the web site for the latest information:
http://www.amsat.org/amsat-new/echo/CTNews.php .

[ANS thanks Gould, WA4SXM and the AO-51 Command team for the above information]

/EX

SB SAT @ AMSAT $ANS-006.02
Best Fist Nominations Due

AMSAT News Service Bulletin 006.02
From AMSAT HQ SILVER SPRING, MD.
January 6, 2008
To All RADIO AMATEURS
BID: $ANS-006.02

Many thanks to all who participated in Straight Key Night on OSCAR 2008. If you have not already done so, please take a moment to nominate someone you worked for Best Fist. Your nominee need not have the best fist of those you heard, but only of those you worked.

Please send your nomination to w2rs@amsat.org. A list of those nominated will be published in an ANS bulletin in early February, and in The AMSAT Journal.

[ANS thanks Ray, W2RS, for the above information]

/EX

SB SAT @ AMSAT $ANS-006.03
South Africa AMSAT Space Symposium Call for Papers

AMSAT News Service Bulletin 006.03
From AMSAT HQ SILVER SPRING, MD.
January 6, 2008
To All RADIO AMATEURS
BID: $ANS-006.03

The South Africa AMSAT Space Symposium will be held in Durban on April 19th. Papers for presentation are now being solicited with a closing date for a synopsis on February 15th. Those selected will be advised that their presentation is one that's been selected and that completed copy must be submitted in Microsoft Word format before March 31st. Submit all submissions electronically to saamsat@intekom.co.za.

[ANS Newsline for the above information]

/EX

SB SAT @ AMSAT $ANS-006.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 006.04
From AMSAT HQ SILVER SPRING, MD.
January 6, 2008
To All RADIO AMATEURS
BID: $ANS-006.04

+ A Powerpoint Presentation (in PDF format), "Satellites for Beginners" can be downloaded from:
http://www.amsatsa.org.za/Satellites%20for%20Beginners.pdf

+ Jay, AA4FL made an AO7 Mode B contact with PY4AJ in grid GH70un.
He is on the fringes of the footprint with a few other stations
in the south of Brasil/Northern Argentina and will be looking for
more contact opportunities. Jay invites e-mail at:
drjay@gatordental.com to set up schedules.

+ Jim G3WGM, Hon Sec AMSAT-UK announced the dates for the next
AMSAT-UK Colloquium are 25/26/27 July 2008. Location and general
arrangements will be similar to last year's event. More details
later. Please note the date in your diaries now.

+ Gould, WA4SXM says the parts list and other documentation for
the LVB Tracker are now available at http://www.LVBTracker.com.
This website will carry the latest information available for
this project.

[ANS thanks JoAnne, K9JKM, for the above information]

/EX

SB SAT @ AMSAT $ANS-006.05
ARISS Status - 31 December 2007

AMSAT News Service Bulletin 006.05
From AMSAT HQ SILVER SPRING, MD.
January 6, 2008
To All RADIO AMATEURS
BID: $ANS-006.05

1. ARISS Contact to be Rescheduled

Due to technical difficulties, the December 27 Amateur Radio on the
International Space Station (ARISS) contact scheduled with the 15 Korolev
City
School in Korolev, Russia was not successful. The contact will be
rescheduled
during January 2008.

2. ARISS Mentioned in QST

The American Radio Relay League (ARRL) referred to Amateur Radio on the
International Space Station (ARISS) in its January 2008 QST. Under "This
Just
In" there was a section that read, "Astronauts aboard the ISS completed 74
contacts with schools during 2007, an ARISS record."

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are

available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

27. ANS-013 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-01-13 17:52:32 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001c01c8560d$0fafeb50$6601a8c0@familyroom>
Source record: 957
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-013

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AO-51 Report
* Florida AMSAT Net Will Host W2GPS This Thursday
* SW Conference
* AMSAT Engineering Team Meets
* Satellite Shorts From All Over
* ARISS Status - 07 January 2008

SB SAT @ AMSAT $ANS-013.01
AO-51 Report

AMSAT News Service Bulletin 013.01
>From AMSAT HQ SILVER SPRING, MD.
January 13, 2008
To All RADIO AMATEURS
BID: $ANS-013.01

The period of no eclipse for AO-51 is about a week old. The no eclipse period has proven to exhibit many short periods when the bad sun angle has caused the solar cells not to supply sufficient power, this has been supplemented by the batteries. We have increased the power output significantly over the last week, TXA (L/U digital BB) is now running 630 mW and TXB (analog V/U repeater) is running 820 mW. We plan on experimenting with the S-Band transmitter and a U-Band transmitter during the next couple of weeks. We do not have a published schedule as we are adapting the outputs to optimize the satellite operation and decrease the temperatures.
Updated Note:1/13/2007--
AO-51 stopped transmitting and is going to be re-booted ASAP. Keep an "ear" on it.

[ANS thanks Gould, WA4SXM and the AO-51 Command team for the above information]

/EX

SB SAT @ AMSAT $ANS-013.02
Florida AMSAT Net Will Host W2GPS This Thursday

AMSAT News Service Bulletin 013.02
>From AMSAT HQ SILVER SPRING, MD.
January 13, 2008
To All RADIO AMATEURS
BID: $ANS-013.02

AMSAT President, Rick Hambly, W2GPS will join the Florida AMSAT Net, Thursday Jan 17, 2008 from 7:30 - 8:30 pm EST to give a short status report and field questions.

This net links repeaters all over Florida and via EchoLink so there is ample opportunity for those that want to listen or ask questions. The EchoLink nodes to connect through are: KG4YZY-R or N4HHA-R.

Please try to connect to KG4YZY-R first via Echolink. If you are connecting via another repeater, please make certain that none of your repeater's IDs, squelch tails, etc are sent over the link, otherwise it gets real messy.

The net's purpose is to provide a platform for hams with amateur satellite interest to meet and discuss topics of interest. All amateurs are invited to check in. Expect other AMSAT Officers and Board members to participate over the next few months.

/EX

SB SAT @ AMSAT $ANS-013.03
SW Conference

AMSAT News Service Bulletin 013.03
>From AMSAT HQ SILVER SPRING, MD.
January 13, 2008
To All RADIO AMATEURS
BID: $ANS-013.03

A conference on global shortwave coordination will be held February in Kuala Lumpur. This, to try to resolve potential interference problems likely to affect shortwave transmissions.

According to the Asia-Pacific Broadcasting Union, the February meeting will be hosted by VT Communications on behalf of the High Frequency Coordination Conference, the Arab States Broadcasting Union and the Asian Broadcasting Union. Using mutual coordination, delegates will try to resolve many of the potential interference problems that are likely to affect shortwave transmissions in the 2008 joint global broadcasting schedule.

At present, a single global seasonal database of seasonal frequency requirements, compiled by the High Frequency Coordination Conference secretariat, assists in the coordination process. A new database of

frequency requirements for the shortwave radio broadcasting season from March 30th to October 26th will be on the agenda of the conference.

Hams will want to keep an eye on the outcome of this gathering because whatever is decided could impact on Amateur Radio operations in spectrum that shared with international shortwave. (Southgate)

[ANS thanks ARNS for the above information]

/EX

SB SAT @ AMSAT $ANS-013.04
AMSAT Engineering Team Meets

AMSAT News Service Bulletin 013.04
>From AMSAT HQ SILVER SPRING, MD.
January 13, 2008
To All RADIO AMATEURS
BID: $ANS-013.04

With the holiday season behind and everyone settling back into winter in the northern hemisphere, the AMSAT Engineering Team kicked off the new year with the first meeting of 2008 on Tuesday, January 8. Thirty-two radio amateurs met via a VoIP teleconference call to get down to work on AMSAT's main missions which include the Eagle Satellite, the geosynchronous Phase IV Lite rideshare opportunity with Intelsat, and educational support for university projects.

Engineering project manager Barry Baines, WD4ASW moderated the meeting along with AMSAT's Vice President of Engineering, Bob McGwier, N4HY. AMSAT's volunteer engineers provided status and planning information for the projects listed below. Barry, Bob and engineering team members will provide members with detailed project information in future columns of the AMSAT Journal.

Rick Hambly, W2GPS, AMSAT President, reported that negotiations are continuing with Intelsat and are now going to focus on size, weight, and cost of the geosynchronous rideshare arrangement. Rick reminded everyone that our mission must excite potential grant funding sources via our unique emergency communication and educational capabilities. Watch the Journal for future details!

Matt Ettus, N2MJI has taken on the design of the Advanced Communication Payload. The first steps toward specification of the high speed digital channels, power requirements, uplink and downlink protocols, and class of stations supported have begun. Watch the Journal for future details!

Howard Long, G6LVB continues work on the linear transponders based on Software Defined Radio (SDR) technology. Development and testing are underway. High altitude balloon, SuitSat2 and SSETI missions are planning to utilize this transponder technology to provide early experience prior to P3E and Eagle utilization. Watch the Journal for future details!

Marc Franco, N2UO has started work on the VHF amplifier driver stage using the silicon carbide technology enabling the 86% efficiency of the main PA. Space rated components are under study. The 2 meter band HELAPS amplifier will be the initial design and possible scaling upward to the 70cm band is under consideration. Watch the Journal for future details!

Lou McFadin, W5DID leads the team developing SuitSat-2. The internal housekeeping unit (IHU) and AMSAT's software defined transponder technology are the main items under development. Solar cells have been donated by NASA. A new antenna system on top of the helmet has been completed. Watch the Journal for future details!

Bob Davis, KF4KSS, AMSAT Lab Manager reported on several good projects that have arisen out of the cooperative efforts of AMSAT and the HAWK Institute of Space Sciences at the University of Maryland, Eastern Shore. Construction of the AMSAT lab in the 8500 square foot facility continues. The clean room and machine shop will be coming on line to begin the development of the Eagle satellite space frame. University students will utilize the facilities to develop and launch a high altitude balloon project and a university cubesat both carrying research-related and AMSAT-related payloads. Watch the Journal for future details!

If you want to help with the AMSAT Engineering Team, send an e-mail to Bob N4HY via n4hy@amsat.org.

[ANS thanks, Bob, N4HY, for the above information]

/EX

SB SAT @ AMSAT $ANS-013.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 013.05
>From AMSAT HQ SILVER SPRING, MD.
January 13, 2008
To All RADIO AMATEURS
BID: $ANS-013.05

+ Clint Bradford, K6LCS reports success from his Wednesday, January 9 AO-51 club demonstration. "AO-51 performed tremendously! We worked Mexico and a couple California stations", said Clint.

+ Ed Long, WA4SWJ, Editor, The AMSAT Journal reminds authors that the dead-line is approaching for article submissions for the Jan/Feb 08 Journal. If you have an article to submit Ed would love to have it as soon as possible.

+ AMSAT Store Manager, Bruce, KK5DO suggests you check out the new 2GB USB Flash Drive in an aluminum finish with the AMSAT logo in the store. Bruce says, "This has to be one of the best items we have carried. Something that all of us can use."

+ The current launch date for the PSLV-C9, carrying the NLS-4 set of nanosatellites (CanX-2, Delfi-C3, AAUSat-II, COMPASS-1,Cute-1.7+APDII, SEEDS) is February 14.

+ Reserve your seat! For his next big plan for the private space industry, Richard Branson is thinking up new ways to excite affluent space tourists:

flying them into the biggest lightshow on Earth, the Aurora Borealis. Although the New Mexico Virgin Galactic Spaceport isn't scheduled for completion until 2010, the British entrepreneur is already planning his next project intended for cruises into the spectacular space phenomenon from an Arctic launchpad. (Universe Today)

+ Amateur radio to the moon? Possible rideshare arrangements to the moon via ESA and NASA student projects are discussed in the November/ December 2007 AMSAT Journal. Not a member? Didn't get the Journal? Sign up for membership today at http://www.amsat.org!

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-013.05
ARISS Status - 07 January 2008

AMSAT News Service Bulletin 013.06
>From AMSAT HQ SILVER SPRING, MD.
January 13, 2008
To All RADIO AMATEURS
BID: $ANS-013.06

1. ARISS School Contacts Status

Due to ISS crew schedules, no Amateur Radio on the International Space Station (ARISS) contacts are planned at this time. The ARISS team expects contacts to resume once STS-122 launches in late January.

2. Astronaut Training Status

Timothy Creamer, KC5WKI, is scheduled for a training session in basic radio operations and school contacts on Tuesday, January 8. Creamer is a backup crew member for the Expedition 18 mission.

3. ARISS Annual Report

The Amateur Radio on the International Space Station (ARISS) FY2007 annual report has been written and is being finalized. It will soon be posted on the ARISS section of the AMSAT Web site.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors

to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

28. Crap/bulshit infestation

Newsgroup: rec.radio.amateur.space
Date: 2008-01-15 07:36:59 UTC
From: manolovs <manolovs@gmail.com>
Message-ID: <6d51de0b-d986-414c-9f86-987abae8d197@e10g2000prf.googlegroups.com>
Source record: 958

can any moderator delete the nonsense crap infesting this newsgoup?

29. Re: Crap/bulshit infestation

Newsgroup: rec.radio.amateur.space
Date: 2008-01-16 00:12:15 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9A26B93F12AB8VeebleFetzer@216.250.184.7>
Source record: 959

In
news:6d51de0b-d986-414c-9f86-987abae8d197@e10g2000prf.googlegroups.com
manolovs <manolovs@gmail.com> wrote:

> can any moderator delete the nonsense crap infesting this newsgoup?

This is not a moderated newsgroup; there is no moderator.

If you were using a real news provider and a real news client instead of
googlegroups, you could filter the group yourself if your news provider
wasn't already doing it for you.

Ironically, much of the nonsense crap that's infesting USENET comes from
googlegroupers.

--
Bert Hyman St. Paul, MN bert@iphouse.com

30. WSR-017 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-01-18 15:31:42 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c859e7$331bda80$6601a8c0@familyroom>
Source record: 960
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-017.S1
WSR 017 Part 1 01/17/2008

AMSAT NEWS SERVICE BULLETIN 017.S1 FROM AMSAT HQ
SILVER SPRING, MD, January 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-017.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - OFF
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01172008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational - APRS and BBS

Current Mode: V/v

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[12272007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-017.S2
WSR 017 Part 2 01/17/2008

AMSAT NEWS SERVICE BULLETIN 017.S2 FROM AMSAT HQ
SILVER SPRING, MD, January 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-017.S2

CAPE-1
Catalog Number: 31130

Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - OFF
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01172008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Semi-Operational - Telemetry ONLY

Current Mode: /u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM 1200-baud Manchester FSK
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz SSB 1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.025 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[11152007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz - OFF
Mode-S Beacon: 2401.500 MHz - OFF

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[010222007]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational - APRS and BBS

Current Mode: V/v

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[12272007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-017.S3
WSR 017 Part 3 01/17/2008

AMSAT NEWS SERVICE BULLETIN 017.S3 FROM AMSAT HQ
SILVER SPRING, MD, January 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-017.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====

UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[007162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
[01152007]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089

Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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/EX

SB SAT @ AMSAT W8ISS $ANS-017.S4
WSR 017 Part 4 01/17/2008

AMSAT NEWS SERVICE BULLETIN 017.S4 FROM AMSAT HQ
SILVER SPRING, MD, January 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-017.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]
=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
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/EX

SB SAT @ AMSAT W8ISS $ANS-017.S5
WSR 017 Part 5 01/17/2008

AMSAT NEWS SERVICE BULLETIN 017.S5 FROM AMSAT HQ
SILVER SPRING, MD, January 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-017.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

31. ANS-020 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-01-20 03:08:57 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001301c85b11$ca6caab0$6601a8c0@familyroom>
Source record: 961
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-020

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AO-51 Recovered
* AMSAT Maryland Lab Update
* P3E C-Band Receiver Construction Completed, Testing Begins
* Six CubeSats to Launch From India
* Opportunity to Help With AMSAT's EaglePedia
* ARISS Status Report for the Week of January 14, 2008

SB SAT @ AMSAT $ANS-020.01
AO-51 Recovered

AMSAT News Service Bulletin 020.01
>From AMSAT HQ SILVER SPRING, MD.
January 20, 2008
To All RADIO AMATEURS
BID: $ANS-020.01

The AO-51 Command Team successfully recovered the satellite this week after its software crashed. Gould, WA4SXM along with Kevin, WA6FWF uploaded and re-started the code. AO-51 is operational in normal mode: V/U analog 145.920/435.300 on TXB & command station digital on TXA.

Heating is the Command Team's main concern during this no eclipse period. Two different strageties have been studied to prevent over-heating from too much solar exposure. The first alternative includes turning the transmitter off to not generate additional heat. The second alternative involves turning the transmitter to as high as power setting as possible to use the sunlight that is converted to electricity which is then radiated out the antenna.

The Command Team decided that the best approach was to use as much energy as possible. When the satellite software crashed Sunday all transmitters stopped operation. They found Battery 1 had a temperature

of 41-42 C, which is too hot. Keeping high TX power (2.28W) on TXA for one orbit as soon as command was recovered resulted in the temperature of battery 1 reducing down to 36C.

Gould summarized, "Everything is looking well so far and we are getting consistent data, with the FM repeater transmitter power setting of at 1.12 W". The telemetry link is operating L/U BB mode at 500 mW.

Joe, K3SZH says he was able to contact David, G1OCN via AO-51. It was a short contact since the satellite was only 1 degree above Joe's horizon.

[ANS thanks Gould, WA4SXM and the AO-51 Command Team for the above information]

/EX

SB SAT @ AMSAT $ANS-020.02
AMSAT Maryland Lab Update

AMSAT News Service Bulletin 020.02
>From AMSAT HQ SILVER SPRING, MD.
January 20, 2008
To All RADIO AMATEURS
BID: $ANS-020.02

Bob, KF4KSS, AMSAT Lab Manager provided an update on the work to bring the new Pocomoke City, MD facility shared with the Hawk Institute of Space Sciences on-line.

+ January will close the cleanroom construction activities.

+ February will begin the tower and all the RF for the satellite control station including U, V, L, S and HF bands. Details will be published as they are completed.

+ After the tower installation, we will begin work on the engineering unit of the structure for the AMSAT Eagle amateur radio satellite. We plan on having parts of it complete in time for the Dayton Hamvention in May.

+ An on-line gallery of Lab pictures can be found at:
http://picasaweb.google.com/bob2leo

[ANS thanks Bob, KF4KSS for the above information]

/EX

SB SAT @ AMSAT $ANS-020.03
P3E C-Band Receiver Construction Completed, Testing Begins

AMSAT News Service Bulletin 020.03
>From AMSAT HQ SILVER SPRING, MD.
January 20, 2008
To All RADIO AMATEURS

BID: $ANS-020.03

Peter Gï¿½lzow, DB2OS, wrote from Marburg, Germany reporting that the AMSAT-DL C-Band receiver for P3E is completed and currently under testing. The receiver was developed by Volker Winterscheid, DF7IT. The 5.6 GHz receiver is housed in a 74x74x30 mm module Which contains a pre-amp, mixer to 10.7 MHz IF, passband filters, and AGC system.

Except for the setting of the AGC time constant, all electrical work is completed on the module. Testing is also being done for selectivity and rejection of adjacent weather radar signals in this band.

More detailed information on the C-band RX for P3-E will appear after completion of the tests in AMSAT-DL Journal.

[ANS thanks Peter Gï¿½lzow, DB2OS for the above information]
/EX

SB SAT @ AMSAT $ANS-020.04
Six CubeSats to Launch From India

AMSAT News Service Bulletin 020.04
>From AMSAT HQ SILVER SPRING, MD.
January 20, 2008
To All RADIO AMATEURS
BID: $ANS-020.04

Six University Cubesat/Amateur Radio satellites are planned for launch in early March, 2008 from India. Full satellite information for each is too lengthy for complete coverage here. Below is a summary of the satellites and their frequencies and operating modes (if known).

Links to the University CubeSat Team's web pages with many additional mission details can be found at:
http://www.uk.amsat.org/
http://showcase.netins.net/web/wallio/CubeSat.htm (W0RPK CubeSat Page)

CANX-2
University of Toronto (Canada)
2m CW TLM plus 70cm uplink/13cm downlink (Not AX.25)

AAUSAT-II
Aalborg University (Denmark)
437.425 AFSK & FSK up/downlink
1200-9600bps AX.25
FM CW TLM

COMPASS-1
University of Applied Sciences (Germany)
Primary telemetry downlink: 437.405 9600bps FSK AX.25
Beacon downlink: 437.275 CW

DELFI-C3
Technical University of Delft (Netherlands)

Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW

The satellite will be in telemetry only mode for approximately
the first three months of the mission, after which it is switched
to linear transponder mode.
Downlink: 145.880 - 145.920 MHz (inverting) 400mW PEP
Uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

CUTE 1.7+APD II
Tokyo Institute of Technology (Japan)
SRLL protocol

SEEDS
Nihon University (Japan)
437.485MHz AX.25 (450mW)
CW (90mW)

[ANS thanks Trevor, M5AKA, and Ralph, W0RPK for the above information]
/EX

SB SAT @ AMSAT $ANS-020.05
Opportunity to Help With AMSAT's EaglePedia

AMSAT News Service Bulletin 020.05
>From AMSAT HQ SILVER SPRING, MD.
January 20, 2008
To All RADIO AMATEURS
BID: $ANS-020.05

AMSAT is looking for two to three motivated individuals interested
in helping with AMSAT's EaglePedia. EaglePedia is a Wiki and is the
central repository for all information on AMSAT's upcoming Eagle
spacecraft and possible future missions. AMSAT engineers and the
general public will be accessing EaglePedia.

Volunteers will be responsible for re-organizing the current Wiki
layout, adding new content, and supporting the AMSAT Engineers as they
design, build and organize the project's documentation. Ideal
candidates will have technical writing, web development, HTML and Wiki
experience, possibly with technical backgrounds (hopefully you all
have this already!). Knowledge of WikiMedia, MySQL, UNIX and
spacecraft engineering and project management is a plus (but not
required).

This is a fantastic oppurtunity to support one of AMSAT's most
ambitious projects!

Please contact Dave, N0TGD (hartzell -at- gmail.com) directly for
more information or to communicate your interest in helping AMSAT-NA!
Please put "EaglePedia" somewhere in the subject line.

[ANS thanks Dave, N0TGD for the above information]

/EX

SB SAT @ AMSAT $ANS-020.06
ARISS Status Report for the Week of January 14, 2008

AMSAT News Service Bulletin 020.06
>From AMSAT HQ SILVER SPRING, MD.
January 20, 2008
To All RADIO AMATEURS
BID: $ANS-020.06

1. ARISS School Contacts Status

Due crew schedules onboard the ISS, no ARISS contacts are planned at this time. The ARISS team expects contacts to resume once STS-122 launches in early February.

2. Astronaut Training Status

Timothy Creamer, KC5WKI, received training on the ARISS basic radio operations and school contacts on Tuesday, January 8. Creamer is a backup crew member for the Expedition 18 mission.

Koichi Wakata, KC5ZTA, and Soichi Noguchi, KD5TVP, will be scheduled for training on ARISS radio operations and school contacts in the near future. Wakata is scheduled to fly on Expedition 18; Noguchi is slated as his backup.

Two training sessions have also been scheduled for Russian crew members on January 16 and 24.

3. ARISS International Team Meeting Held

Minutes of the December ARISS teleconference have been posted.
See: http://www.rac.ca/ariss/arisstel20071218.htm
The next ARISS teleconference will be held on January 22.

4. South Korean will Participate in ARISS Contact

South Korean spaceflight participant Ko San holds a South Korean amateur radio license. San plans to participate in an ARISS contact while aboard the ISS. He will fly on a Russian Soyuz spacecraft with Expedition 17 crew members Sergei Volkov and Oleg Kononenko slated to launch on April 8, 2008.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,

JoAnne Maenpaa, K9JKM

32. WSR-024 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-01-24 03:54:59 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001b01c85e3c$da501830$6601a8c0@familyroom>
Source record: 962
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-024.S1
WSR 024 Part 1 01/24/2008

AMSAT NEWS SERVICE BULLETIN 024.S1 FROM AMSAT HQ
SILVER SPRING, MD, January 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-024.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01242008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational - APRS and BBS

Current Mode: V/v

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR

USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[12272007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-024.S2
WSR 024 Part 2 01/24/2008

AMSAT NEWS SERVICE BULLETIN 024.S2 FROM AMSAT HQ
SILVER SPRING, MD, January 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-024.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712

Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]

=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01242008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544

Launch date: November 20, 1998

Status: Operational - APRS and BBS

Current Mode: V/v

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[12272007]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-024.S3
WSR 024 Part 3 01/24/2008

AMSAT NEWS SERVICE BULLETIN 024.S3 FROM AMSAT HQ
SILVER SPRING, MD, January 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-024.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE

Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[007162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]

=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12

[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====

KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz

Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440

Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====

AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
[01152007]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-024.S4
WSR 024 Part 4 01/24/2008

AMSAT NEWS SERVICE BULLETIN 024.S4 FROM AMSAT HQ
SILVER SPRING, MD, January 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-024.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]
=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====

Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:

Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
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SB SAT @ AMSAT W8ISS $ANS-024.S5
WSR 024 Part 5 01/24/2008

AMSAT NEWS SERVICE BULLETIN 024.S5 FROM AMSAT HQ
SILVER SPRING, MD, January 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-024.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the
memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,
G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

33. ANS-027 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-01-28 03:27:42 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001a01c8615d$bce0a1b0$6601a8c0@familyroom>
Source record: 963
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-027

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* New V/US Mode Operational on AO-51
* AO-16 Reconfigured for Voice Operations
* AMSAT at Orlando Hamcation
* AMSAT-DC Meeting Announcement
* AMSAT President Testifies Regarding Antenna Restrictions
* ARISS Status - 21 January 2008

SB SAT @ AMSAT $ANS-027.01
New V/US Mode Operational on AO-51

AMSAT News Service Bulletin 027.01
From AMSAT HQ SILVER SPRING, MD.
January 27, 2008
To All RADIO AMATEURS
BID: $ANS-027.01

On January 25th, AO-51 was switched to a new mode. Currently both the S band downlink of 2401.200 and the 435.300 downlink are on and tied together to the 145.920 receiver. This creates a single repeater that can be heard on either downlink. In the past the satellite power budget would not allow simultaneous S and U downlinks for more than a few moments, but the current no eclipse season allows us try try this new combination. The L/U BBS and U band telemetry will be off during this period, except for brief periods when command stations will be collecting telemetry. During these passes, the S band downlink may be shut off temporarily.

Give this new mode a try this weekend. If you like using S-band AND working lots of stations, this mode is for you. Currently we plan to run this mode through the end of the month.

73, Drew KO4MA
AMSAT-NA VP Ops

[ANS thanks Drew, KO4MA, for the above information]

SB SAT @ AMSAT $ANS-027.02
AO-16 Reconfigured for Voice Operations

AMSAT News Service Bulletin 027.02
From AMSAT HQ SILVER SPRING, MD.
January 27, 2008
To All RADIO AMATEURS
BID: $ANS-027.02

Since AO-16 was recovered approximately 6 months ago, the command team has attempted to reload the satellite software almost a dozen times without success. Subsequently a series of memory tests were performed which points towards a hardware failure which prevents restarting the spacecraft software successfully. This team included Bruce Rahn WB9ANQ and Jim White WD0E advising Mark Hammond N8MH as the primary groundstation. Mark put in many early hours during the multiple reloads and test sessions, with Bruce, Jim, and others advising. Thank you to all involved for your hard work.

After the conclusion that the spacecraft computer system was damaged and as discussions about decommissioning were taking place, Jim recalled a series of low level commands included in the spacecraft design by Tom Clark, K3IO during construction. One of these commands allows an uplink receiver to be directly tied to a downlink transmitter. The twist is that the uplink is regular FM but the downlink via the BPSK transmitter is DSB (Double Sideband). Mark placed the satellite in this mode early this week and some testing was undertaken. The satellite hears VERY well, and the reduced bandwidth by using either USB or LSB on the groundstation receiver allows for a very robust downlink. Tuning the downlink is just like on a linear transponder, meaning it is tight and with fast Doppler. Uplink tuning is not required, just as with the FM mode V/U satellites. QSOs were made between N8MH, WD4ASW, KO4MA, K5QXJ, and WA6FWF. My personal observations include being able to access and hear the satellite within one degree of the horizon, much lower than any other current bird for my QTH. This should be an easy satellite with omni antennas and a 70cm preamp.

With that explanation, I'm happy to open the satellite to general use on voice for a test period. Please submit reports either to the -bb or to ao16@amsat.org . The uplink is 145.920 FM, and the downlink is 437.026 SSB +/- Doppler shift. Please restrict your uplink power to a reasonable level, and do not transmit without being able to hear the downlink. All the general single-channel guidelines apply. Enjoy this bird's new life!

[ANS Drew, KO4MA, for the above information]

/EX

SB SAT @ AMSAT $ANS-027.03
AMSAT at Orlando Hamcation

AMSAT News Service Bulletin 027.03
From AMSAT HQ SILVER SPRING, MD.
January 27, 2008
To All RADIO AMATEURS
BID: $ANS-027.03

AMSAT will have a large presence at the Orlando Hamcation. It will remind some people of Dayton. The Orlando Hamcation has grown in size and prominence in the U.S. After all, it is in a horrible place for Winter in the U.S.!

http://www.hamcation.com/

The following AMSAT board members and officers will be there:

AMSAT President Rick Hambly, W2GPS
AMSAT President Emeritus, Tom Clark, K3IO (ex-W3IWI)
AMSAT Executive V.P. Lee McLamb, KU4OS
AMSAT V.P. Operations, Drew Glasbrenner, KO4MA
AMSAT V.P. Field Ops, Gould Smith, WA4SXM
AMSAT V.P. Engineering Bob McGwier, N4HY

and others.

Some of the above are board members. Additionally, board members Lou McFadid, W5DID and Barry Baines, WD4ASW will be in attendance. Barry Baines is our new Eagle/Intelsat project manager.

AMSAT has been granted prominent times and rooms for presentations. AMSAT is bringing the operational SDX and will soon thereafter put an SDX based linear transponder on the air covering much of the state of Florida and in a prominent place in Maryland. Additionally, one of the SDX will be in use in Europe thanks to a generous offer and help from Viktor Kudielka. AMSAT will hold engineering planning meetings here for engineering management. This was decided because so many of these people were going to be in attendance anyway. Please come hear about Eagle and Phase 3 E in Orlando. I hope to see you there Feb. 8-10!

[ANS thanks Bob, N4HY, for the above information]

/EX

SB SAT @ AMSAT $ANS-027.04
AMSAT-DC Meeting Announcement

AMSAT News Service Bulletin 027.04
From AMSAT HQ SILVER SPRING, MD.
January 27, 2008
To All RADIO AMATEURS
BID: $ANS-027.04

We will meet in Pioneer Hall at the Historical Electronics Museum. Same place as last year, same time as last year, for one more time.

WHO: YOU are invited! Amateur radio operators, students, educators and the public are all invited.

WHAT: Talks, demos, tutorials and socializing about amateur satellites and balloon experiments in the greater mid-Atlantic USA area. A full day of activities.

WHEN: Saturday, March 15, 2008, starting at 11:00 A.M. local.

WHERE: Historical Electronics Museum (HEM) at 1745 West Nursery Road, Linthicum, Maryland 21090 (near BWI airport). In Pioneer Hall. HEM directions at http://www.hem-usa.org/

WHY: Fun, education, public service, cool stuff, and more fun.

HOW: Talk-in on 146.760 MHz (107.2 Hz PL on some receiver sites)

HOST: Pat Kilroy, n8pk@amsat.org or Patrick.L.Kilroy@nasa.gov

WEB: See http://patkilroy.com/amsat-dc/ for late breaking news. Download the AMSAT-DC-2008 flier PDF from the N8PK web page to share as widely as you can. Thank you!

[ANS thanks Pat, N8PK, for the above information]

/EX

SB SAT @ AMSAT $ANS-027.05
AMSAT President Testifies Regarding Antenna Restrictions

AMSAT News Service Bulletin 027.05
From AMSAT HQ SILVER SPRING, MD.
January 27, 2008
To All RADIO AMATEURS
BID: $ANS-027.05

On January 24, 2008 AMSAT President Rick Hambly W2GPS testified before the Maryland State Senate Judicial Proceedings Committee in support of Senate Bill 80 that would prohibit "homeowners associations from restricting or prohibiting the design, placement, screening, height, or use of specified amateur radio equipment." It is hoped that we will also get a hearing before a House committee in a few weeks. There was no opposition to this bill during the hearing, unlike previous years. For more information see http://mlis.state.md.us/2008rs/billfile/sb0080.htm and http://n3ij.home.comcast.net/.

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SB SAT @ AMSAT $ANS-027.06
ARISS Status - 21 January 2008

AMSAT News Service Bulletin 027.06
From AMSAT HQ SILVER SPRING, MD.
January 27, 2008
To All RADIO AMATEURS
BID: $ANS-027.06

1. ARISS School Contacts Status

Due crew schedules onboard the ISS, no Amateur Radio on the International Space
Station (ARISS) contacts are planned at this time. The ARISS team expects
contacts to resume once STS-122 launches in early February.

2. Astronaut Training Status

On Wednesday, January 16, Russian cosmonaut Oleg Skripochka, RN3FU, participated
in a simulation of an Amateur Radio on the International Space Station (ARISS)
school contact. The Kenwood D700 radio in the JSC Service Module mockup was used
for the contact. Skripochka spoke with the training support team who
participated as students, asking Oleg questions about space and his visit on
ISS. He is currently scheduled as an Expedition 17 backup crew member.

3. ARISS Annual Report Posted

The Amateur Radio on the International Space Station (ARISS) FY2007 Annual
Report has been posted to the ARISS section of the AMSAT Web site. See:
http://www.amsat.org/amsat/ariss/Papers/Annual%20Reports/
ARISS_Annual_Report_2007_Final.pdf

4. Gail Borden Library Wins Award

The Gail Borden Public Library in Elgin, Illinois was one of five libraries to
win the 2008 John Cotton Dana Library Public Relations Award. The library won
the award for its "Space: Dare to Dream" exhibit. A highlight of the exhibit,
which ran for four months during 2007, was an Amateur Radio on the International
Space Station (ARISS) contact. The Summer Reading program resulted in an
increase in program participants, library card registrations and material
circulation.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

34. WSR-031 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-02-01 03:00:32 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001b01c8647e$92e88cf0$6601a8c0@familyroom>
Source record: 964
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-031.S1
WSR 031 Part 1 01/31/2008

AMSAT NEWS SERVICE BULLETIN 031.S1 FROM AMSAT HQ
SILVER SPRING, MD, January 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-031.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
BBS - OFF
APRS - OFF
Voice - Occasianally
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[01312008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-031.S2
WSR 031 Part 2 01/31/2008

AMSAT NEWS SERVICE BULLETIN 031.S2 FROM AMSAT HQ
SILVER SPRING, MD, January 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-031.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
BBS - OFF
APRS - OFF
Voice - Occasianally
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[01312008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-031.S3
WSR 031 Part 3 01/31/2008

AMSAT NEWS SERVICE BULLETIN 031.S3 FROM AMSAT HQ
SILVER SPRING, MD, January 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-031.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-031.S4
WSR 031 Part 4 01/31/2008

AMSAT NEWS SERVICE BULLETIN 031.S4 FROM AMSAT HQ
SILVER SPRING, MD, January 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-031.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-031.S5
WSR 031 Part 5 01/31/2008

AMSAT NEWS SERVICE BULLETIN 031.S5 FROM AMSAT HQ
SILVER SPRING, MD, January 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-031.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

35. ANS-034 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-02-04 15:05:34 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000d01c8673f$6371c4a0$6601a8c0@familyroom>
Source record: 965
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-034

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:
* AO-16 Status
* AMSAT STraight key nite winners
* ISS Cross Band Repeater
* DC Area AMSAT Gathering
* OSCAR 11 Report
* ARISS Status - 28 January 2008
* ANDE De-Orbit Awards Have Been Mailed
* ARISS INTERNATIONAL CHAIRMAN MOVES INTO NEW POSITION AT NASA

SB SAT @ AMSAT $ANS-034.01
AO-16 Status

AMSAT News Service Bulletin 034.01
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.01

AO-16 is now alive and well. Many contacts going through the previously packet only satellite. Uplink on 145.920 and downlink 437.026. Its downlink is best heard in USB mode since it is a doubleside band, reduced carrier transmitter.
Thanks to someone that assisted in assembling this satellite for remembering a simple command to link tx and rx for direct communications not using the failed onboard computer.

[ANS thanks Drew, KO4MA, for the above information]

SB SAT @ AMSAT $ANS-034.02
AMSAT Straight key nite winners

AMSAT News Service Bulletin 034.02
From AMSAT HQ SILVER SPRING, MD.

February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.02

Many thanks to all who participated in AMSAT's Straight Key Night on OSCAR 2008, held in memory of Haruo Yoneda, ex-JA1ANG.

Only two linear-transponder satellites were available this year, AO-7 and VO-52. Two enterprising hams, W6ASL and WA8SME, didn't let that stop them: they used audio oscillators to work each other through the FM transponder of AO-51. That counts too!

The silence of FO-29 notwithstanding, a record 15 amateurs each received at least one Best Fist nomination from someone they worked. The increase in European activity was especially welcome. This year's winners are:

Jay Garlitz, AA4FL
Sergei Pyatygin, ER1AN
Laszlo Kekes, HA5FB
Ron Gorzynski, K8DID
Frank Wiesenmeyer, K9CIS
Scott Newell, KA8HOK
Keith O'Brien, N4ZQ
Allen Mattis, N5AFV
Al Ozias, N7EQF
Rolf Moberg, OH6KXL
Andy Macallister, W5ACM
Jim Van Striver, W6ASL
Mike Herr, WA6ARA
Mark Spencer, WA8SME
Neven Mrduljas, 9A5YY

Congratulations to all. See you next year!

[ANS Thanks Ray, W2RS, for the above information]

/EX

SB SAT @ AMSAT $ANS-034.03
ISS Repeater

AMSAT News Service Bulletin 034.03
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.03

The ISS cross band repeater is on and functioning as of this announcement. It is on Uplink - 437.800FM
Downlink - 145.800FM. It is quite strong and can be heard well on a simple setup. I read a report that "someone" called CQ and there was no -one coming back to him. Listen and give it a shot.

[ANS thanks Tony, K2MO, for the above information]

/EX

SB SAT @ AMSAT $ANS-034.04
DC Area AMSAT Gathering

AMSAT News Service Bulletin 034.04
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.04

Meeting Announcement-AMSAT-DC

We will meet in Pioneer Hall at the Historical
Electronics Museum. Same place as last year,
same time as last year, for at least one more
time. If you can't make Dayton or the Symposium, plan to attend this
great gathering.

Clip and share!
++

2008 AMSAT-DC MEETING AND SPACE SEMINAR

WHO: YOU are invited! Amateur radio operators, students,
educators and the public are all invited.

WHAT: Talks, demos, tutorials and socializing about amateur
satellites and high-altitude balloon experiments in the
greater mid-Atlantic USA area. A full day of activities!

WHEN: Saturday, March 15, 2008, starting at 11:00 A.M. local.

WHERE: Historical Electronics Museum (HEM) at 1745 West Nursery
Road, Linthicum, Maryland 21090 (near BWI airport). In
Pioneer Hall. HEM directions at http://www.hem-usa.org/

WHY: Fun, education, public service, training, cool stuff,
and more fun.

HOW: Talk-in on 146.760 MHz (107.2 Hz PL on some receiver
sites)

HOST: Pat Kilroy, n8pk@amsat.org or Patrick.L.Kilroy@nasa.gov

WEB: Check the AMSAT-DC page http://patkilroy.com/amsat-dc/
for late breaking news.

++

Notes:

Please download the AMSAT-DC-2008 flier from the
AMSAT-DC web page, print copies and share them
widely, like at a club meeting, at a hamfest, in

a public library, in a school, and other visible
places.

Meeting preparations are being conducted on the
amsat-dc e-mail list. Go to the link at top of
the AMSAT-DC page to subscribe.

This year will feature something new, a Pot Luck
luncheon! You may bring a favorite dish to share.
See the AMSAT-DC web page for additional info or
please contact the host, yours truly, at
n8pk@amsat.org.

Free paved parking is available a short walk from
the museum front door. Like before, monetary
donations will be accepted to help offset the
associated meeting and seminar costs. Like last
year, we'd like to in turn donate a portion to
the museum for the use of their facility.

Outrageous fun, learning, and camaraderie are
in store for you.

See you there!

73,

Pat Kilroy, N8PK
AMSAT Area Coordinator
Maryland-DC Area

[ANS thanks Pat, N8PK, for the above information]

/EX

SB SAT @ AMSAT $ANS-034.05
OSCAR 11 Report

AMSAT News Service Bulletin 034.05
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.05

OSCAR-11 Report for 26 January 2008

This report covers the period from 19 December 2007 to
26 January 2008. After two months of silence from 20 November,
when eclipses started, the satellite resumed transmissions on
22 January 2008.

At the time of writing signals are consistantly strong, although
the polarisation is very variable, with a cycle time of around
20 seconds, causing deep fading if the antenna polarisation is
fixed. This suggests that the satellite may be tumbling.

If the current watchdog cycle continues uninterrupted, the
145.826 MHz beacon should switch off around 01 February and on
again around 11 February. However, if low battery voltage causes
the watchdog timer to reset, then the beacon should switch on
21 days later.

I am indebted to Peter ZL3TC, Mark KU7Z, Gene WA4UKX, SWL Mark
in CM87, Ron G4PGY, Julian WB9YIG, John HB2HSH and Edward BX1AD
for their reports. Many thanks.

The satellite is now in continuous sunlight, and this is expected
to continue until mid March, when eclipses will start again.
Unfortunately eclipses will then become a permanent feature of
the orbit, which is likely to prevent any periods of sustained
operation after March.

When telemetry was last received it showed that one of the solar
arrays had failed, and there was a large unexplained current drain
on the main 14 volt bus. After 23 years in orbit the battery has
undergone around 100,000 partial charge/discharge cycles, and
observations suggest that it cannot power the satellite during
eclipses, or sometimes during periods of poor solar attitude.

The Beacon frequency is 145.826 MHz. (AFSK FM ASCII Telemetry)

Listeners to OSCAR-11 may be interested in visiting my website.
If you need to know what OSCAR-11 should sound like, there is a
short audio clip for you to hear. There is an example of the
latest telemetry received from the satellite. The website contains
an archive of news & telemetry data. It also contains details
about using a soundcard or hardware demodulators for data capture.
There is software for capturing data, and decoding ASCII telemetry.
The URL is http://www.users.zetnet.co.uk/clivew/

73 Clive G3CWV

[ANS thanks Clive, G3CWV for the above information]

/EX

SB SAT @ AMSAT $ANS-034.06
ARISS Status - 28 January 2008

AMSAT News Service Bulletin 034.06
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.06

1. ARISS School Contacts Status

Due to crew schedules onboard the ISS, no Amateur Radio on the
International Space Station (ARISS) contacts are planned at this time.
The ARISS team expects contacts to resume once STS-122 launches in early
February.

2. STS-120 Crew Talks with Italian Students

On January 22, STS-120 crewmembers visited "La Sapienza" University in Rome where approximately 600 students from several universities and high schools gathered. Among those in attendance were students from the schools that participated in ARISS contacts with astronauts Paolo Nespoli, IZ0JPA, and Clay Anderson, KD5PLA. The crew gave a presentation on their mission which included educational activities, and showed videos to their audience. The complete story and photos of the event have been posted on the ARISS Web site. See: http://www.ariss-eu.org/2008_01_25.htm

3. Astronaut Training Status

On Wednesday, January 23, Russian cosmonaut Oleg Kononenko, RN3DX, participated in a simulation of an Amateur Radio on the International Space Station (ARISS) school contact. The Kenwood D700 radio in the JSC Service Module mockup was used for the contact. He spoke with the training support team who participated as students, asking Oleg questions about space and his visit on the ISS. Kononenko is scheduled as a flight engineer on Expedition 17.

A basic Amateur Radio on the International Space Station (ARISS) operations and school contact class was held with Soichi Noguchi, KD5TVP, and Koichi Wakata, KC5ZTA, on January 24. Wakata is scheduled to fly to the ISS on 15A (STS-119) toward the end of 2008 as Flight Engineer-2 during Expedition 18. Noguchi is the backup for that flight and could participate as part of the 6 man ISS crew operations in 2010.

Mike Barratt, KD5MIJ, has been scheduled for an ARISS training session at JSC on Tuesday, January 29. Barratt is a backup crewmember for Expedition 18.

4. ARISS Looking for New Telebridge Stations

The Amateur Radio on the International Space Station (ARISS) team is currently looking to expand its telebridge station network. The proposal has been announced on the ARISS Web site. The American Radio Relay League (ARRL) ran an article, "ARISS Team Looking for Ground Stations," which may be found at: http://www.arrl.org/news/stories/2008/01/22/100/?nc=1

The ARRL Letter also ran the announcement. See: http://www.arrl.org/arrlletter/08/0125/

5. ARRL Article on JPL Amateur Radio Club Anniversary

The American Radio Relay League (ARRL) ran an article, "Jet Propulsion Lab's Amateur Radio Club Marks 50 Years in Space." See: http://www.arrl.org/?artid=7957

[ANS thanks Carol, KB3LKI, for the above information]

/EX

SB SAT @ AMSAT $ANS-034.07
ANDE De-Orbit Awards Have Been Mailed

AMSAT News Service Bulletin 034.07
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.07

ANDE De-Orbit Awards Have Been Mailed

ANDE Awards have been mailed the last week of January.Details are
available here: http://www.ande-deorbit.com/status.shtml

In case you did not sign up yet, there is still a chance to do so:
http://www.ande-deorbit.com/submission.shtml

Mailing may take a week or so, but you should expect them one of
these days in your mailbox !

For those interested, on the website there is the full overview of
all telemetry of the final days (incl. the very last one, by JA0CAW).
Also all the TLE (kepler sets) since launch:
http://www.ande-deorbit.com/ande_all_tle.txt

[ANS thanks Henk, PA3GUO for the above information]

/EX

SB SAT @ AMSAT $ANS-034.08
ARISS INTERNATIONAL CHAIRMAN MOVES INTO NEW POSITION AT NASA

AMSAT News Service Bulletin 034.08
From AMSAT HQ SILVER SPRING, MD.
February 3, 2008
To All RADIO AMATEURS
BID: $ANS-034.08

Amateur Radio on the International Space Station (ARISS) International
Chairman Frank Bauer, KA3HDO, was named recently as the NASA
Headquarters Chief Engineer for the Exploration Systems Mission
Directorate (ESMD). ESMD is NASA's initiative to develop a sustained
human presence on the moon, promote space exploration and serve as a
stepping stone to Mars and beyond. As ESMD Chief Engineer, he provides
systems engineering advice and consultation to resolve some of the most
demanding and complex technical and organizational challenges within the
Exploration Program.

Bauer and Rosalie White, K1STO, are the two ARISS delegates for the US.
He is the Vice President of Human Spaceflight Programs for the Radio
Amateur Satellite Corporation. Bauer was a 2006 nominee for the Rotary
National Award for Space Acheivement, bestowed upon him for "his
tireless work to engage the youth of our nation and the world in the
exploration of space through unique direct communications made possible
by Amateur Radio on human spaceflight missions."

Bauer is the recipient of NASA's 2002 Outstanding Leadership Medal, the 1997 NASA Exceptional Achievement Medal -- bestowed for Pioneering Efforts in Spaceborne GPS -- and NASA's 1992 Exceptional Service Medal (for agency contributions in GN&C). He received the Silver Snoopy Award, the highly prestigious NASA Human Spaceflight Awareness award, in 1992.

For more information about ARISS, please visit the ARISS Web page <http://www.rac.ca/ariss/oindex.htm>.

[ANS Thanks, ARRL news for the above item]
/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

36. Radio Meteor Obs. Bull. January 2008 Quadrantids

Newsgroup: rec.radio.amateur.space
Date: 2008-02-05 17:19:00 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <ji6hq3d1bmfg0c545q8b4qqri8ncnasm9q@4ax.com>
Source record: 966
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 174 of January 2008 (79 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0801.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

37. Re: Crap/bulshit infestation

Newsgroup: rec.radio.amateur.space
Date: 2008-02-05 21:17:48 UTC
From: canopus56 <Canopus56@yahoo.co>
Message-ID: <Xns9A3B99D09A4DFcanopus56yahoocom@66.150.105.47>
Source record: 967

Bert Hyman <bert@iphouse.com> wrote in
news:Xns9A26B93F12AB8VeebleFetzer@216.250.184.7:

<snip>
> If you were using a real news provider and a real news client
> instead of googlegroups, you could filter the group yourself
> if your news provider wasn't already doing it for you. <snip>

For those of us who do use a desktop newsreader with slrn kill filing
options, it would be helpful if the lead RMOB bulletin and AMSAT posters
would post separate posts to single usenet groups only, instead of:

Newsgroups: rec.radio.amateur.space,rec.radio.info

Newsgroups: rec.radio.amateur.space,sci.astro.amateur

- post individual messages to:

Newsgroups: rec.radio.amateur.space
Newsgroups: rec.radio.info
Newsgroups: sci.astro.amateur

The single most effective kill file technique is the filtering of any
message that is cross-posted to more than one group. I realize that it
is an imposition on your sending end, but regretably it is probably
necessary in the current usenet environment.

At present, I have to go back and pick up your interesting bulletins
manually because they are filtered out due to your use of crossposting.

Best wishes, Canopus56

--
Posted via a free Usenet account from http://www.teranews.com

38. WSR-038 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-02-09 03:31:34 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002301c86acc$42412f60$6601a8c0@familyroom>
Source record: 968
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-038.S1
WSR 038 Part 1 02/07/2008

AMSAT NEWS SERVICE BULLETIN 038.S1 FROM AMSAT HQ
SILVER SPRING, MD, February 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-038.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
APRS - OFF
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[01312008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-038.S2
WSR 038 Part 2 02/07/2008

AMSAT NEWS SERVICE BULLETIN 038.S2 FROM AMSAT HQ
SILVER SPRING, MD, February 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-038.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
APRS - OFF
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[01312008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-038.S3
WSR 038 Part 3 02/07/2008

AMSAT NEWS SERVICE BULLETIN 038.S3 FROM AMSAT HQ
SILVER SPRING, MD, February 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-038.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-038.S4
WSR 038 Part 4 02/07/2008

AMSAT NEWS SERVICE BULLETIN 038.S4 FROM AMSAT HQ
SILVER SPRING, MD, February 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-038.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
NNNN
/EX

B SAT @ AMSAT W8ISS $ANS-038.S5
WSR 038 Part 5 02/07/2008

AMSAT NEWS SERVICE BULLETIN 038.S5 FROM AMSAT HQ
SILVER SPRING, MD, February 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-038.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

39. ANS-041 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-02-10 02:22:28 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201c86b8b$c42a1ea0$6601a8c0@familyroom>
Source record: 969
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-041

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* ARISS-Europe Amateur Radio Antennas Reach Orbit
* AO-51 February Schedule
* ARISS Observes SuitSat-1 Anniversary
* AO-51 Satellite Cardboard Model Prototype Assistance Requested
* AMSAT Presence at Orlando Hamcation This Weekend
* FO-29 Status
* Satellite Shorts From All Over
* ARISS Status Report For The Week of February 4, 2008

SB SAT @ AMSAT $ANS-041.01
ARISS-Europe Amateur Radio Antennas Reach Orbit

AMSAT News Service Bulletin 041.01
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.01

When the Shuttle Atlantis launched on Thursday, February 8 the European Space Agency's Columbus module was on its way for delivery at the International Space Station. The amateur radio antennas mounted on the exterior open a new phase of amateur radio in space. While it will take several months to complete the ham shack aboard the Columbus module the first step has been taken.

Frank Bauer, KA3HDO, ARISS International Chairman, and AMSAT-NA V.P. for Human Spaceflight Programs was quite pleased at this milestone and told the team, "I would like to extend my congrat-ulations to the ARISS-Europe team on today's successful launch of our newest on-orbit hardware delivery, the additional ARISS antennas!"

The ARISS-Europe team have been working hard and diligently for over 5 years to realize this outstanding milestone. The team faced numerous challenges, including some very severe environmental testing to get approval to fly these antenna systems.

Noting the international effort for this success, Frank continued, "I would like to thank Gaston Bertels, ON4WF for his outstanding leadership on this project and Dr. Pawel Kabacik at the Wroclaw University of Technology in Poland for his efforts in the antenna design and testing. And I would like to extend my sincere gratitude to all those who contributed to this project through their volunteer efforts, financial contributions and/or in-kind contributions. YOU helped us develop, test and fly these antennas."

For more information on the ARISS antennas, see:
http://www.ariss-eu.org/

[ANS thanks Frank, KA3HDO and ARISS for the above information]

/EX

SB SAT @ AMSAT $ANS-041.02
AO-51 February Schedule

AMSAT News Service Bulletin 041.02
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.02

Drew KO4MA, AMSAT-NA VP Operations noted this week, "The AO-51 committee has completed a schedule for February. We will continue the V/US repeater mode that began on January 25th for all of February, except on Tuesdays through Thursdays when we will switch to L/US.

This pattern will repeat every week in February except that the mode switch from V/US to L/US on Tuesday the 12th will be delayed until Wednesday the 13th to accommodate a School Roundup event at Two Rivers School in North Bend, Washington.

The S-band downlink may be temporarily suspended for WOD telemetry download without notice. Generally this will only be for one pass per day.

Regarding the graphic schedule on the main AMSAT web page, the software that does the schedule will not allow for the proper display of the current modes. Please refer to:
http://www.amsat.org/amsat-new/echo/CTNews.php

February 2008 AO-51 (AMSAT Echo) Schedule

February 1 until February 29, subject to modification

February 8 - February 12
FM Repeater, V/US
Uplink: 145.920 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

February 13 - February 14
FM Repeater, L/US
Uplink: 1268.700 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

February 15 - February 18
FM Repeater, V/US
Uplink: 145.920 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

February 19 - February 21
FM Repeater, L/US
Uplink: 1268.700 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

February 22 - February 25
FM Repeater, V/US
Uplink: 145.920 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

February 26 - February 28
FM Repeater, L/US
Uplink: 1268.700 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

February 29 - TBD
FM Repeater, V/US
Uplink: 145.920 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

[ANS thanks the AO-51 Operations Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-041.03
ARISS Observes SuitSat-1 Anniversary

AMSAT News Service Bulletin 041.03
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.03

In marking the 2nd anniversary of the deployment of SuitSat-1
/Radioskaf/AO-54 from the ISS this week, Frank Bauer, KA3HDO,
ARISS International Chairman, and AMSAT-NA V.P. for Human Space-
flight Programs said, "I want to take this opportunity to thank
all the volunteers around the world that supported the SuitSat-1
development, deployment, public outreach and ground station
reception." Frank said the SuitSat certificates have been mailed

as of this past week.

2008 brings new opportunities to you, the hams interested in ARISS, which includes:

+ Plans to commemorate the 25th anniversary of human spaceflight ham radio operation---the flight of Owen Garriott, W5LFL on the space shuttle Columbia, STS-9 in 1983.

+ A team of dedicated amateur radio operators is working to bring SuitSat-2 to reality. At this point in time, it is not clear when it will be deployed, but we are working feverishly to have it ready for deployment before the end of the year.

+ We expect to have significant ARISS crew amateur radio partici-pation starting in the October 2008 timeframe with the launch of the Expedition 18 crew and Soyuz taxi flight.

Frank wraps up with, "I thank all of you for your interest in ARISS. This program is truly inspirational for students, the ham radio community, and the communities surrounding the schools that have been touched by the 334 (to date) school contacts conducted since December 2001."

[ANS thanks Frank, KA3HDO and ARISS for the above information]

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SB SAT @ AMSAT $ANS-041.04
AO-51 Satellite Cardboard Model Prototype Assistance Requested

AMSAT News Service Bulletin 041.04
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.04

Stefan, VE4NSA has finished the 1st prototype of an AO-51 cardboard model design and would like to give a few dedicated individuals the opportunity to actually build the model and help him with the final design and the necessary instructions.

Stefan notes, "At this stage I will need individuals that have built cardboard models (ships, airplanes, rockets etc.) before and don't need detailed instructions but know the tools that are required to assemble such a model."

Pictures of the current prototype can be seen at:
http://www.msig.ca/model.html

It is still a work in progress and hopefully will end up as a product that AMSAT can offer for a donation. I designed the model in a 1:1 scale but for the purpose of this project it has been reduced to 75% size. This will allow builders to print it on regular

size photo paper and still have a beautiful model for display in
the shack, school projects, or amateur radio presentations.

Building the model will require time, patience and a color printer
since the model is distributed as pdf files. This form of distribution
will save paper and will allow you to print it as many times as you
need.

As mentioned above, Stefan is looking for up to five test builders
(with experience) that are willing and able to finish the model in
four to five weeks. It is not a two hour project and dedication to
detail and exact cutting and gluing is required. Those that help and
provide him with updates on their progress and final feedback will get
the final distribution files as well as the model files in a 1:1
scale.

Send Stefan an email <callsign>@amsat.org if you are interested!

[ANS thanks Stefan, VE4NSA for the above information]

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SB SAT @ AMSAT $ANS-041.05
AMSAT Presence at Orlando Hamcation This Weekend

AMSAT News Service Bulletin 041.05
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.05

This weekend AMSAT will have a large presence at the Orlando Hamcation.
It will remind some people of Dayton. The Orlando Hamcation has grown
in size and prominence in the U.S. After all, it is in a "horrible
place" for Winter in the U.S.! See: http://www.hamcation.com/

The following AMSAT board members and officers will be there:

AMSAT President Rick Hambly, W2GPS
AMSAT President Emeritus, Tom Clark, K3IO (ex-W3IWI)
AMSAT Executive V.P. Lee McLamb, KU4OS
AMSAT V.P. Operations, Drew Glasbrenner, KO4MA
AMSAT V.P. Field Ops, Gould Smith, WA4SXM
AMSAT V.P. Engineering Bob McGwier, N4HY

Some of the above are board members. Additionally, board members
Lou McFadin, W5DID and Barry Baines, WD4ASW will be in attendance.
Barry Baines is our new Eagle/Intelsat project manager.

AMSAT has been granted prominent times and rooms for presentations.
AMSAT is bringing the operational SDX and will soon thereafter put
an SDX based linear transponder on the air covering much of the
state of Florida and in a prominent place in Maryland. Additionally,
one of the SDX will be in use in Europe thanks to a generous offer

and help from Viktor Kudielka.

Taking advantage of the occasion, AMSAT will hold engineering planning meetings in Orlando this weekend for engineering management. This was decided because so many of these people were going to be in attendance anyway.

[ANS thanks Bob, N4HY AMSAT-NA VP Engineering for the above information]

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SB SAT @ AMSAT $ANS-041.06
FO-29 Status

AMSAT News Service Bulletin 041.06
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.06

Toyo Komatsu, JA0CQP provided an update on behalf of JARL in regards to the status of the FO-29 satellite. JARL is the agency responsible for FO-29 operation.

While command and control and some transponder operation has been recovered over Japan, JARL notes at this time FO-29 is not in condition to offer worldwide service with control stations around the world.

The satellites power budget is a key issue. Although power from the solar cells is just adequate for operation, the inner impedance of the Ni-Cd rechargeable batteries is increasing. They cannot support operation of the transmitter approximately 10 minutes after entering eclipse.

The PCU (Power Control Unit) has failed and the satellite's trans-mitter does not automatically recover, requiring intervention by the ground control station in Tokyo.

JARL will continue to monitor the situation aboard FO-29 and preserve its functionality for as many as users around the world as possible. This situation may continue for up to 2 years until FO-29 enters a no-eclipse period in 2010.

[ANS thanks Toyo Komatsu, JA0CQP for the above information]

/EX

SB SAT @ AMSAT $ANS-041.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 041.07
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS

BID: $ANS-041.07

+ AMSAT Engineering needs experienced help programming the MPS-430. This processor will be in a Cubesat. The preference is to use FreeRTOS on it but adequate reasons for not following this path can be discussed. Email to n4hy@amsat.org directly.

+ JAMSAT (Japan-AMSAT) announced that QSL cards for QSOs via ISS Cross Band Repeater are valid for the "JAMSAT 5 Stars Award".

+ The 2008 Microwave Update is being planned for the weekend of October 17-18-19 in the Minneapolis area.

+ The dates for the AMSAT-UK Colloquium are July 25,26,27, 2008.

+ The University of Louisiana is asking for a volunteers to help mentor a senior design capstone project to design and test to destruction with high dose of radiation a communication control and data handling processor. This processor is planed to fly on the CAPE II satellite on 2009. It is anticipated that this will involve two one hour session a month via WEB X. We are seeking those have skill in designing fault tolerant microprocessors and have knowledge of how high energy particles effect memory chips. Contact k5qxj@amsat.org.

+ W5ACM, W5GFP, WA5TWT, WA5WOD, N5RPQ and WB5RMA finished up a cruise to the western Caribbean. Over 90 QSOs were made using call W5ACM/MM from the Carnival Conquest. Some AO-16 passes with excellent results. Most of the contacts were via AO-51 but they were amazed at the signal strength of the AO-16 downlink. It was REALLY EXCELLENT!!

+ The launch of the NLS-4 cluster including Delfi-C3 has been delayed again, for now, it is scheduled for mid-April. Updates will be post-
ed on the Delfi mission status page.

+ PB and PG for Linux are programs used for download from and upload to digital satellites (Pacsats) supporting the FTL0 protocol. This software allows you to directly communicate with the Microsat series of satellites. Release 2.2.1 of PB/PG for Linux is now available from ftp.amsat.org /amsat/software/Linux/pbpg-2.2.1.tar.gz
(via oz6bl (at) amsat (dot) org)

+ Would you like to name the next great space telescope? Here's your chance: NASA is inviting members of the general public to suggest a new name for the Gamma-ray Large Area Space Telescope before it launches in mid-2008. See:

http://science.nasa.gov/headlines/y2008/08feb_namethattelescope.htm?list958901
Anyone who drops a name into the "Name That Satellite!" suggestion box on the Web page can choose to receive a "Certificate of Partici-
pation" via return e-mail. Participants also may choose to receive the NASA press release announcing the new mission name. The announce-

ment is expected approximately 60 days after launch of the telescope.

+ Clint Bradford, K6LCS has secured an AMSAT member deal from HRO on the Arrow satellite antenna with duplexer: Model 146/437-10WBP for $125.95. That's about $10-15 off suggested retail. Offer good through February. Contact k6lcs@amsat.org.

+ AMSAT needs volunteers to "man" the AMSAT booth at Timonium, one of the largest amateur radio shows on The East Coast. The dates are March 29 and March 30 at the Maryland State Fairgrounds in Timonium, Md. See: http://www.gbhc.org/ Contact Martha at AMSAT HQ if you can help! 301-589-6062, or e-mail martha@amsat.org.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-041.08
ARISS Status Report For The Week of February 4, 2008

AMSAT News Service Bulletin 041.08
>From AMSAT HQ SILVER SPRING, MD.
February 10, 2008
To All RADIO AMATEURS
BID: $ANS-041.08

1. ARISS School Contacts - Status

Due to crew schedules onboard the ISS, no ARISS contacts are planned at this time. The ARISS team expects contacts to resume once STS-122 launches in early February.

2. Glenden State School Receives Award for ARISS Contact

An ARISS contact took place between Glenden State School in Queensland, Australia and Sunita Williams, KD5PLB, on April 4, 2007. On January 26, 2008 the school was presented with an Australia Day Award in recognition of the contact. The mayor who bestowed the award noted that the contact was a very unique educational outreach activity in which the community became involved. ARISS member Shane Lynd, VK4KHZ, submitted an article covering this news to the Wireless Institute of Australia. The story and photos have been posted under News on the ARISS Website. See: http://www.rac.ca/ariss/oindex.htm

3. Astronaut Training Status

On Tuesday, January 29, Mike Barratt, KD5MIJ, participated in an ARISS training session at JSC. Basic radio operations and school contacts were covered during the class. Barratt is a backup crewmember for Expedition 18, and the prime Flight Engineer for Expedition 19A.

ARISS conducted an amateur radio school contact simulation utilizing a local school. Students at Bay Area Charter Elementary near JSC took part in 2 sessions on Friday, February 8 at approximately 9:45 am and 10:10 am CT via the JSC W5RRR repeater. Mike Fincke, KE5AIT, participated in the first contact and Koichi Wakata, KC5ZTA, participated in the second simulated contact. These two contacts were retransmitted on the Internet Radio Linking Project (IRLP) and the W5RRR repeater. This is the first time a school contact simulation training session has been conducted live with students at the other end of the session. If successful, it might be possible to conduct a handful of these sessions each year.

4. ARISS Radio Configured in Crossband Repeater Mode

On Thursday, January 31, cosmonaut Yuri Malenchenko, RK3DUP, configured the ARISS Kenwood radio to crossband repeater mode. The frequencies are 437.800 MHz uplink and 145.800 MHz downlink.

5. ARRL Article on ARISS Chairman

The American Radio Relay League (ARRL) ran an article on ARISS Chairman Frank Bauer in its ARRL Letter. To view the story, "ARISS International Chairman Moves into New Position at NASA," see: http://www.arrl.org/arrlletter/08/0201/

6. SuitSat-1 Certificates

The ARISS team has begun to distribute certificates for participation in the SuitSat-1 project. Additional certificates will be mailed as participant lists are received. SuitSat-1, an amateur radio satellite housed in a Russian Orlan spacesuit, was deployed on February 3, 2006 and received extensive media coverage and over 9.5 million hits on the SuitSat Web site.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

40. WSR-045 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-02-14 01:24:58 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002001c86ea8$6ee40ee0$6601a8c0@familyroom>
Source record: 970
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-045.S1
WSR 045 Part 1 02/14/2008

AMSAT NEWS SERVICE BULLETIN 045.S1 FROM AMSAT HQ
SILVER SPRING, MD, February 14, 2008
TO ALL RADIO AMATEURS
BID: $ANS-045.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
APRS - OFF
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

STS-122 Space Shuttle Atlantis crew:
Commander: Steve Frick
Pilot: Alan Poindexter
Mission Specialist: Leland Melvin
Mission Specialist: Rex Walheim
Mission Specialist: Hans Schlegel
Mission Specialist: Stanley love
Mission Specialist: Leopold Eyharts

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM

Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[02142008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-045.S2
WSR 045 Part 2 02/14/2008

AMSAT NEWS SERVICE BULLETIN 045.S2 FROM AMSAT HQ
SILVER SPRING, MD, February 14, 2008
TO ALL RADIO AMATEURS
BID: $ANS-045.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]

=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22

Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
APRS - OFF
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Daniel M. Tani KD5DXE

STS-122 Space Shuttle Atlantis crew:
Commander: Steve Frick
Pilot: Alan Poindexter
Mission Specialist: Leland Melvin
Mission Specialist: Rex Walheim
Mission Specialist: Hans Schlegel
Mission Specialist: Stanley love
Mission Specialist: Leopold Eyharts

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[02142008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-045.S3
WSR 045 Part 3 02/14/2008

AMSAT NEWS SERVICE BULLETIN 045.S3 FROM AMSAT HQ
SILVER SPRING, MD, February 14, 2008
TO ALL RADIO AMATEURS
BID: $ANS-045.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-045.S4
WSR 045 Part 4 02/14/2008

AMSAT NEWS SERVICE BULLETIN 045.S4 FROM AMSAT HQ
SILVER SPRING, MD, February 14, 2008
TO ALL RADIO AMATEURS
BID: $ANS-045.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]
=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
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/EX

B SAT @ AMSAT W8ISS $ANS-045.S5
WSR 045 Part 5 02/14/2008

AMSAT NEWS SERVICE BULLETIN 045.S5 FROM AMSAT HQ
SILVER SPRING, MD, February 14, 2008
TO ALL RADIO AMATEURS
BID: $ANS-045.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

41. ANS-048 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-02-19 18:21:18 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001401c87324$392804c0$6701a8c0@familyroom>
Source record: 971
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-048

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Lab Status and Volunteer Opportunities
* AMSAT Engineering Meeting in Orlando
* Abstract Deadline Extended for the 2008 Cubesat Workshop
* Houston AMSAT Net Changes
* ARISS Status - 11 February 2008

SB SAT @ AMSAT $ANS-048.01
AMSAT Lab Status and Volunteer Opportunities

AMSAT News Service Bulletin 048.01
From AMSAT HQ SILVER SPRING, MD.
February 17, 2008
To All RADIO AMATEURS
BID: $ANS-048.01

Bob Davis, KF4FKSS, AMSAT Lab Manager reports that appears we're within about 3
work days of completing the cleanroom at the AMSAT lab in Pocomoke, MD! This
is
good news for those of us that have spent
a year cleaning, scraping, painting, etc.

While Bob was in Orlando supporting Hamcation, where AMSAT had a booth, presentation, Board of Directors meeting and engineering meetings, J.C., Ray,
Steve & Martin worked on the cleanroom. It is really starting to look complete

now.

Here is the Lab schedule for the next couple of weeks:
Mon Feb 18 - Open 9-5 (this is President's Day)
Sat Feb 23 - Open 9-5.

It is hoped that these dates will conclude the cleanroom effort (which
is
dependent on us volunteers!). Then, work on the Eagle Engineering Unit
will
begin. This is a flight-like structure that will be used to verify some
things
before we are messing with the expensive (and schedule driven) flight
unit.
It
will be taken (incomplete) to the Dayton Hamfest in May.
We also have a couple antennas we want to raise...

All volunteers are welcome! RSVP would be nice, but not required.

For directions, map to this intersection:
Broad St & Pocomoke Belt
Pocomoke City, MD 21851

If you have any questions, email Bob at KF4KSS@amsat.org

[ANS thanks Bob, KF4KSS, for the above information]

/EX

SB SAT @ AMSAT $ANS-048.02
AMSAT Engineering Meeting in Orlando

AMSAT News Service Bulletin 048.02
From AMSAT HQ SILVER SPRING, MD.
February 17, 2008
To All RADIO AMATEURS
BID: $ANS-048.02

Bob McGwier, N4HY, AMSAT VP of Engineeing called an engineering meeting
for
the
weekend of 8-11 Feb in Orlando, FL. This meeting was to define the
engineering
projects, leaders and deliverables for 2008. The meeting was well
attended
and
many tough issues were discussed. Plans to fast track some of the
projects
to
meet Dayton, SuitSat-2, Atlanta Symposium and the balloon and cubesat
launches
with HAWK and HISS were made. This was a very productive meeting and

details
will follow in the AMSAT Journal. Bob also
described the 2008 engineering tasks
in a video that will soon appear on the AMSAT web site at
http://www.amsat.org/amsat-new/information/videoNews.php .

The meeting also coincided with the Orlando Hamcation, were Rick
Hambly,W2GPS;
Bob McGwier, N4HY; Drew Glasbrenner, KO4MA; Bob Davis, KF4KSS and Lou
McFadin,
W5DID discussed the activities in a 90 minute forum. Dave Jordan, AA4KN
and
Robert Davies, KI4HXT hosted the AMSAT booth and did satellite
demonstrations.
The AMSAT booth was well attended and very productive. Most of the
AMSAT
officers and board members were available at the booth on Saturday to
talk
with
members and to answer questions.

Videos are also being prepared of the Orlando forum talks and satellite
demonstrations.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-048.03
Abstract Deadline Extended for the 2008 Cubesat Workshop

AMSAT News Service Bulletin 048.03
From AMSAT HQ SILVER SPRING, MD.
February 17, 2008
To All RADIO AMATEURS
BID: $ANS-048.03

The deadline for abstract submission for the 2008 CubeSat Workshop has
been extended. Please submit your abstract by Friday March 7th at
www.cubesat.org. The workshop sessions are listed below and we
encourage
you to focus your abstract on one of these topics:

1) New CubeSat Developers
2) Novel Avionics
3) Nanosats
4) Access to Space
5) Ground Station Operations
6) Unique Missions

Don't forget, workshop registrations is available online and spaces are
filling up quickly for the workshop April 9th-11th at Cal Poly! Please
contact

cubesat-workshop@atl.calpoly.edu with any questions or concerns
regarding
registration or abstract submittal.

[ANS thanks Alex Chin and Marissa Brummitt for the above information]

/EX

SB SAT @ AMSAT $ANS-048.04
Houston AMSAT Net Changes

AMSAT News Service Bulletin 048.04
From AMSAT HQ SILVER SPRING, MD.
February 17, 2008
To All RADIO AMATEURS
BID: $ANS-048.04

The Houston AMSAT Net has once again gone through some morphing. After being on the W0KIE Satellite Radio Network from our 121st net using SBS-6 on June 18, 1996 we had to move. The W0KIE Satellite Radio Network was a wonderful long term spot for us. Our 726th net on February 5, 2008 began on our new home, Galaxy-25 and the SkyScanner Satellite Radio Network (SSRN).

If you would like to hear us on K-band satellite, you can set your dish and receiver as follows:

The Houston AMSAT Net is on the SkyScanner Satellite Radio Network on Galaxy-25 @97ï¿½ West, Transponder 23 (12115 Vert), Symbol Rate: 22425, APID: 1794 (DVB Free To Air)

Our internet audio can now be heard at:

+ RFD1 16k (dialup speed) at http://www.cband.info/rfd1.m3u
+ RFD2 (broadband speed) at http://www.cband.info/rfd2.m3u
+ AMSAT conference on Echolink

If you would like to join us on the IRC either during the net or at any other time.

The IRC is: irc.dishnuts.net
Then join the channel #amsat

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-048.05
ARISS Status - 11 February 2008

AMSAT News Service Bulletin 048.05
From AMSAT HQ SILVER SPRING, MD.
February 17, 2008
To All RADIO AMATEURS
BID: $ANS-048.05

1. Upcoming School Contact

Robespierre Elementary School in Rueil Malmaison, France has been scheduled
for
an Amateur Radio on the International Space
Station (ARISS) contact on Thursday,
February 21 at 14:21 UTC. Two hundred fifty-six students in grades 1-5 are
enrolled at the school. ESA astronaut Lï¿½opold Eyharts, FX0STD/KE5FNO, plans
to
participate in this contact.

2. Astronaut Training Status

The Amateur Radio on the International Space Station (ARISS) team coordinated
two amateur radio school contact simulations between students at Bay Area
Charter Elementary in the Houston area and astronauts Mike Fincke, KE5AIT
and
Koichi Wakata, KC5ZTA at JSC. The two sessions took place on Friday, February 8
via the JSC W5RRR repeater. These two contacts were retransmitted on the
Internet Radio Linking Project (IRLP). They were also fed into the Echolink
AMSAT (101 377) and JK1ZRW (277 208) servers and received 8 connections,
including 2 link nodes and one repeater node from the U.S., Japan, and the
Ukraine.

3. ARRL Articles on Simulated ARISS Contacts

The American Radio Relay League (ARRL) ran a Web story on the simulated ARISS
contacts that took place between astronauts Mike Finke and Koichi Wakata at
JSC
and Bay Area Charter Elementary in the Houston area. See:
http://www.arrl.org/news/stories/2008/02/05/100/?nc=1

The activity was also published in the ARRL Letter. See:
http://www.arrl.org/arrlletter/08/0208/

4. Columbus Module Launched

Atlantis launched on Thursday, February 7 carrying ESAï¿½s Columbus module
with
new Amateur Radio on the International Space Station (ARISS) antennas. ARISS
Chairman Frank Bauer sent congratulations to the European team for a job

well
done. See: http://www.amsat.org/amsat/archive/sarex/10day/msg01509.html

5. Shukor Debrief Scheduled

An Amateur Radio on the International Space Station (ARISS) crew debrief
has
been scheduled with Dr. Sheikh Muszaphar Shukor, 9W2MUS, on Tuesday,
February
26. Shukor, the first Malaysian space visitor, participated in 5 ARISS
contacts
with students in Malaysia while onboard the ISS.

6. Amateur Radio Newsline Article

On February 8, the Amateur Radio Newsline ran a story on Amateur Radio
on
the
International Space Station (ARISS) Chairman
Frank Bauerï¿½s promotion at NASA. To
view this item, go to:
http://www.arnewsline.org/index.php?option=content&task=view&id&
Itemid

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT
Project
Funds, will be eligible to receive additional benefits. Application
forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

42. WSR-052 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-02-22 02:44:24 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002b01c874fc$d1e670a0$6701a8c0@familyroom>
Source record: 972
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-052.S1
WSR 052 Part 1 02/21/2008

AMSAT NEWS SERVICE BULLETIN 052.S1 FROM AMSAT HQ
SILVER SPRING, MD, February 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-052.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
APRS - OFF
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[02212008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-052.S2
WSR 052 Part 2 02/21/2008

AMSAT NEWS SERVICE BULLETIN 052.S2 FROM AMSAT HQ
SILVER SPRING, MD, February 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-052.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
APRS - OFF
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[02212008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-052.S3
WSR 052 Part 3 02/21/2008

AMSAT NEWS SERVICE BULLETIN 052.S3 FROM AMSAT HQ
SILVER SPRING, MD, February 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-052.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-052.S4
WSR 052 Part 4 02/21/2008

AMSAT NEWS SERVICE BULLETIN 052.S4 FROM AMSAT HQ
SILVER SPRING, MD, February 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-052.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-052.S5
WSR 052 Part 5 02/21/2008

AMSAT NEWS SERVICE BULLETIN 052.S5 FROM AMSAT HQ
SILVER SPRING, MD, February 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-052.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

43. ANS-055 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-02-24 22:06:40 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c8772e$dfe50bb0$6701a8c0@familyroom>
Source record: 973
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-055

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Keplerian Data Approval
* Current AMSAT Awards/AMSAT Journal
* Call For European CubeSats on the Vega Maiden Flight
* ARISS Status - 18 February 2008
* OSCAR-11 Report

SB SAT @ AMSAT $ANS-055.01
AMSAT Keplerian Data Approval

AMSAT News Service Bulletin 055.01
From AMSAT HQ SILVER SPRING, MD.
February 24, 2008
To All RADIO AMATEURS
BID: $ANS-055.01

I am pleased to announce that AMSAT's 2008-2009 request to re-distribute Keplerian elements from US Air Force Space Command (AFSPC) Space-Track web site has been approved.
Our USSTRATCOM Form 1 request to re-distribute the Keps was approved as of February 21, 2008.

This means that AMSAT will continue to distribute the NASA verbose and the two line format keplerian data for another year.
Thanks to AFSPC for their help.

[ANS thanks Ray Hoad for the above information]

/EX

SB SAT @ AMSAT $ANS-055.02
Current AMSAT Awards/AMSAT Journal

AMSAT News Service Bulletin 055.02
From AMSAT HQ SILVER SPRING, MD.
February 24, 2008
To All RADIO AMATEURS
BID: $ANS-055.02

We would like to welcome the following to the satellite community.
They have made their first satellite contact and are now members of the
AMSAT Satellite Communicators Club.

Keith Schlottman, KR7RK
Kevin Hartley, VE7OVY
Jim Sullivan, WB6TNF

To see all the awards visit http://www.amsat.org or
http://www.amsatnet.com

Bruce Paige, KK5DO

AMSAT Director Contests and Awards

ARRL Awards Manager (WAS, 5BWAS, VUCC), VE

Also,
The JAN/FEB Journal was sent to the printer on 2/22/08. Ed, WA4SWJ, does

an excellent job of putting together this publication and we thank him
for his continuing efforts.

[ANS thanks Bruce, KK5DO & Ed Long, WA4SWJ, for the above information]

/EX

SB SAT @ AMSAT $ANS-055.03
Call For European CubeSats on the Vega Maiden Flight

AMSAT News Service Bulletin 055.03
From AMSAT HQ SILVER SPRING, MD.
February 24, 2008
To All RADIO AMATEURS
BID: $ANS-055.03

Call For European CubeSats on the Vega Maiden Flight

The European Space Agency (ESA) Education Office has the pleasure in
issuing a Call For CubeSat Proposals to universities in ESA Member
and Cooperating States to participate as an educational payload on
the Maiden Flight of the Vega Launcher.

The ESA Education Office recognises the growing importance of CubeSat
projects as a key tool in providing university students with a valuable
hands-on practical education across all space engineering disciplines
from end-to-end through the complete space project lifecycle.

The launch opportunity on the Vega Maiden Flight is offered free of
charge for up to 6 CubeSats, with an additional 2 backup CubeSats on

stand-by.

Proposals are solicited from interested universities with CubeSat
projects of sufficient maturity level to be able to meet the Vega
Maiden Flight schedule (current target launch date of December 2008).

Proposals (max. 15 pages) must be submitted via e-mail to:
education@esa.int in PDF or MS Word format by the deadline
of 17 March 2008.

Proposals will be evaluated by the ESA Selection Board and the
selected CubeSats will be announced on the ESA Education web portal
by 15 April 2008.

Details can be found on-line at:
http://www.esa.int/esaED/SEMSJ8QR4CF_index_0.html

[ANS thanks the European Space Agency for the above information]

/EX

SB SAT @ AMSAT $ANS-055.04
OSCAR-11 Report

AMSAT News Service Bulletin 055.04
From AMSAT HQ SILVER SPRING, MD.
February 24, 2008
To All RADIO AMATEURS
BID: $ANS-055.04

OSCAR-11 Copied But Signal Becomes Intermittent

OSCAR-11 was heard from 22 January to 01 February and from 11 February
to 15 February. Signals have been very variable in strength sometimes
very strong, sometimes undetectable, even at high elevations. Low signal
strength was particularly noticeable at AOS and LOS, and also towards
the end of the transmission periods. OSCAR-11 is expected to switch
back on under control of its on-board timer around 07 March.

There should be a short period of transmissions before permanent
eclipses
start in mid March. After March it is unlikely that the satellite will
support any sustained period of operation, and will only transmit for a
short time, possibly less than a single orbit, every 21 days.

Many thanks to Peter ZL3TC, Chris M0DQO, Tobias DG3LV, Edward BX1AD,
Mark KU7Z, Gene WA4UKX, SWL Mark in CM87, Ron G4PGY, Julian WB9YIG
and John KB2HSH for their reports.

OSCAR-11 beacon frequency is on 145.826 MHz, AFSK FM ASCII Telemetry.

See http://www.users.zetnet.co.uk/clivew/ for additional information.

[ANS thanks Clive, G3CWV for the above information]

/EX

SB SAT @ AMSAT $ANS-055.05
ARISS Status - 18 February 2008

AMSAT News Service Bulletin 055.05
From AMSAT HQ SILVER SPRING, MD.
February 24, 2008
To All RADIO AMATEURS
BID: $ANS-055.05

ARISS Status Report for the Week of February 18, 2008

1. Upcoming School Contacts

Robespierre Elementary School in Rueil Malmaison, France had an ARISS contact on Thursday, February 21 at 14:21 UTC. Two hundred fifty-six students in grades 1-5 are enrolled at the school. ESA astronaut Lï¿½opold Eyharts, FX0STD/KE5FNO, participated in this contact which will was conducted in French.

An ARISS contact is planned for College Reydellet in Saint-Denis, Ile de La Rï¿½union on Monday, February 25 at 14:44 UTC. Approximately 550 students, ages 10-17, attend the school. Students contacted Victor Afanassiev on MIR from Tsup, Moscow in September 1999 and the College welcomed Victor Poliakov and Pavel Vinogradov who threw the space model from MIR, and Jean-Lou Chretien , Jean-Pierre and Claudie Haignere. ESA astronaut Lï¿½opold Eyharts, FX0STD/KE5FNO, plans to participate in this contact which will be conducted in French.

2. Shukor Debrief Scheduled

An ARISS crew debrief has been scheduled with Dr. Sheikh Muszaphar Shukor, 9W2MUS, on Tuesday, February 26. The first Malaysian space visitor, Shukor participated in 5 ARISS contacts with students in Malaysia while onboard the ISS.

3. ARRL Covers Columbus News

The American Radio Relay League (ARRL) posted a W1AW bulletin and a Web story on the Columbus module with the ARISS antennas. To view t he story, see: http://www.arrl.org/news/stories/2008/02/14/101/?nc=1

On Friday, February 15, The ARRL Letter also posted the article, "Astronauts Work on Columbus Lab on the ISS."
See: http://www.arrl.org/arrlletter/08/0215/

4. Amateur Radio Newsline Articles on ARISS

Amateur Radio Newsline's Report 1592, posted on February 15, 2008 ran two ARISS related articles: "Ham Radio in Space: ISS Repeater Contacts Good for JAMSAT Award," and "Ham Radio in Space: New ARISS Antennas Now on the ISS." To view these articles, go to: www.arnewsline.org.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

44. EchoLink ARISS Reunion Island ISS contact 25Feb 1441 UTC

Newsgroup: rec.radio.amateur.space
Date: 2008-02-25 07:43:28 UTC
From: news@amsat.org
Message-ID: <47c2710f.2542270@nntp.aioe.org>
Source record: 974

EchoLink ARISS Reunion Island ISS contact 25Feb 1441 UTC

EchoLink feed ARISS Reunion Island ISS contact
On Monday, 25 February 2008, starting at approximately 14:44 UTC, there will be a contact between the ISS and the College Reydellet, Saint-Denis, Ile de La Reunion, France.

This is a direct contact with the ham radio ground station FR5CY/P and Leopold Eyharts FX0STD/KE5FNO on the ISS. At this time we believe to get the audio from this contact via Skype to feed into EchoLink. Please join us in listening to this event.

The audio for this event will be fed into the EchoLink *AMSAT* (101 377) and *JK1ZRW* (277 208) servers by Tony VK5ZAI.

Where it looks at this time that we get the audio from this contact via Skype, it is unlikely that the audio from this event will also be fed into the IRLP Discovery Reflector 9010. We hope to have good two way audio from this contact. So far, with previous Skype feed contacts, we had good audio through Skype to get the audio from schools into our EchoLink conference rooms .

French astronaut Leopold Eyharts
As we do normally, as soon as audio is suitable for transmission over amateur radio, we may be able to start feeding audio of set up activities from about 10 to 25 minutes prior to the start of the actual contact into EchoLink for listeners who enjoy listening in on these proceedings.

Please note that there are automatic breaks in the audio transmission every 2.5 minutes during the event and while we listen to preparations going on for this contact. Each audio break is approximately 1 second long. Please configure your systems to not time out during times of inactivity or ongoing audio transmissions.

For everyone's information and future reference. When any ARISS event can be supported through the IRLP "Discovery" Reflector 9010, audio is automatically streamed to the Internet.

It is then available via the "Discovery" Reflectors companion web site www.discoveryreflector.ca . Once on its main page, select "Live Streaming Audio" (left side bar) and follow the prompts.

More directly the URL is as follows:
www.discoveryreflector.ca:8000/listen.pls

The audio on the Internet is typically delayed by about two minutes.

45. WSR-059 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-02-28 13:09:02 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c87a0b$10f0bae0$6701a8c0@familyroom>
Source record: 975
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-059.S1
WSR 059 Part 1 02/28/2008

AMSAT NEWS SERVICE BULLETIN 059.S1 FROM AMSAT HQ
SILVER SPRING, MD, February 28, 2008
TO ALL RADIO AMATEURS
BID: $ANS-059.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the repeater
on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW

435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
Packet/APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11

Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line is
NOT translated from Russian and posted.
[02282008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-059.S2
WSR 059 Part 2 02/28/2008

AMSAT NEWS SERVICE BULLETIN 059.S2 FROM AMSAT HQ
SILVER SPRING, MD, February 28, 2008
TO ALL RADIO AMATEURS
BID: $ANS-059.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM

2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally

BBS - OFF
Packet/APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
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Mode and Antenna Polarization:
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Callsigns:
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APRS tracking page: http://www.ariss.net/

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Remember that the crew operates on UTC time. Also, all of the time line is
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[02282008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-059.S3
WSR 059 Part 3 02/28/2008

AMSAT NEWS SERVICE BULLETIN 059.S3 FROM AMSAT HQ
SILVER SPRING, MD, February 28, 2008
TO ALL RADIO AMATEURS

BID: $ANS-059.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial land and weather imaging payloads offers FM and FSK Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a collaborative effort between the Malaysian government and Surrey Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon (EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]

=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW

Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13

Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-059.S4
WSR 059 Part 4 02/28/2008

AMSAT NEWS SERVICE BULLETIN 059.S4 FROM AMSAT HQ
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TO ALL RADIO AMATEURS
BID: $ANS-059.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]
=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78

[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-059.S5
WSR 059 Part 5 02/28/2008

AMSAT NEWS SERVICE BULLETIN 059.S5 FROM AMSAT HQ
SILVER SPRING, MD, February 28, 2008
TO ALL RADIO AMATEURS
BID: $ANS-059.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)

* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

46. ANS-062 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-03-03 21:11:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c87d5a$c8af00e0$6701a8c0@familyroom>
Source record: 976
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-062

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Reminder - AMSAT-DC Meeting on March 15
* 2007 Symposium DVD Now in the AMSAT Store
* AO-51 Schedule Update
* IEEE Student Microwave PA Design Competition
* MicroHAMS Digital Conference 2008 Announcement
* Satellite Activity Planned for Swan Island DXpedition
* WorkedGrids Software Released
* PCSAT Re-Enters Eclipse
* ARISS Status Report for the Week of February 25, 2008

SB SAT @ AMSAT $ANS-062.01
Reminder - AMSAT-DC Meeting on March 15

AMSAT News Service Bulletin 062.01
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.01

2008 AMSAT-DC MEETING AND SPACE SEMINAR

WHO: YOU are invited! Amateur radio operators, students, educators and the public are all invited.

WHAT: Talks, demos, tutorials and socializing about amateur satellites and high-altitude balloon experiments in the greater mid-Atlantic USA area. A full day of activities!

WHEN: Saturday, March 15, 2008, starting at 11:00 A.M. local.

WHERE: Historical Electronics Museum (HEM) at 1745 West Nursery Road, Linthicum, Maryland 21090 (near BWI airport). In Pioneer Hall. HEM directions at http://www.hem-usa.org/

WHY: Fun, education, public service, training, cool stuff,
and more fun.

HOW: Talk-in on 146.760 MHz (107.2 Hz PL on some receiver
sites)

HOST: Pat Kilroy, n8pk@amsat.org or Patrick.L.Kilroy@nasa.gov

WEB: Check the AMSAT-DC page http://patkilroy.com/amsat-dc/
for late breaking news.

[ANS thanks Pat, N8PK for the above information]

/EX

SB SAT @ AMSAT $ANS-062.02
2007 Symposium DVD Now in the AMSAT Store

AMSAT News Service Bulletin 062.02
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.02

Bruce, KK5DO, AMSAT Store Manager is quite pleased to announce a new
item just added to the AMSAT store. It is the long awaited 2007 AMSAT
Symposium DVD. To order yours contact Martha at the AMSAT office,
telephone 301 589-6062.

This is a must for anyone that was not able to attend the 2007 AMSAT
Symposium in Pittsburgh or those that attended who would like the
Symposium on DVD.

This DVD has all of the 2007 papers, PowerPoints and audio of the
presentations. Additional features of this DVD are the Symposium papers
from 2004 and 2005, ISS Columbus module video and much more.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-062.03
AO-51 Schedule Update

AMSAT News Service Bulletin 062.03
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.03

The March 2008 AO-51 schedule isn't on the web site yet but will be
soon. The Operations Team has changed the links on the AO-51 page.

The AO-51 News and Text Schedule link will give you the most up
to date information about the AO-51 schedule.

The Control Team Operating Schedule Grid link will take you the
operating grid page, but many of the modes we are running can't
be programmed into the grid yet and therefore the grid can't be
displayed. We are working on changing the software to display
the new modes in the grid format.

[ANS thanks Gould, WA4SXM and the AO-51 Operations Team for the
above information]

/EX

SB SAT @ AMSAT $ANS-062.04
IEEE Student Microwave PA Design Competition

AMSAT News Service Bulletin 062.04
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.04

MTT-5 (High Power Amplifier Components) is pleased to announce the
Fourth High Efficiency Power Amplifier Competition, which will take
place at the IEEE MTT-S International Microwave Symposium (IMS), in
2008.

This competition is open to all students and graduate students
registered at an educational establishment. The competitors are
required to design, construct, and measure a high efficiency
power amplifier, at a frequency of their choice above 1 GHz but
less than 20 GHz, and having an output power level of at least 5
watts, but less than 100 watts. The winner will be judged on the
design, which demonstrates the highest power added efficiency
(PAE).

The power amplifiers must be brought to IMS2008 where they will be
tested to verify their performance. A representative of the design
group must be present at the testing to assist with the evaluation.
The winner will receive a prize of $1,000, and will be invited to
submit a paper describing the design for the MTT Microwaves Magazine.

Questions can be sent to Dr. Kiki Ikossi at <ikossi@ieee.org>
The power amplifier (PA) design may use any type of technology, but
must be the result of student effort both in the amplifier design and
fabrication.

See: http://www.ims2008.org/publications/PA-POSTER08-RevA.pdf

[ANS thanks Art, W4ART for the above information]

/EX

SB SAT @ AMSAT $ANS-062.05
MicroHAMS Digital Conference 2008 Announcement

AMSAT News Service Bulletin 062.05
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.05

Announcing the second annual MicroHAMS Digital Conference! The event will be held this year on the main Microsoft campus located in Redmond, WA on March 22nd, 2008.

The agenda this year will include a wide variety of topics around digital communications and Amateur radio. Lunch and snacks are included with the price of the conference and we'll have free Internet access.

Because of space limitations and parking requirements on the Microsoft campus, we are strongly suggesting pre-registering for the event. Registration is $12.00 if done prior to the event and will be $15.00 at the door. Door Prizes include donations from Icom and MicroHAMS.

Event Details
Date/Time: March 22, 2008 09:00 to 17:00
Location: Redmond, WA (Building 122 on the Microsoft Corporate Campus)
Lunch: Sub sandwiches and snacks (included with registration fee)
Cost: $12.00 if pre-paid or $15.00 at the door.

Registration: http://www.microhams.com/digitalconference

[ANS thanks Bob, W7LRD for the above information]

/EX

SB SAT @ AMSAT $ANS-062.06
Satellite Activity Planned for Swan Island DXpedition

AMSAT News Service Bulletin 062.06
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.06

Bill, NZ5N says that HQ8R will be operating on the satellites from Swan Island, grid EK87, from March 15-23. See http://www.hondurasdx.com/

Bill will be taking his FT-817 and an Arrow antenna. Time permitting, he will also try to make a few contacts before and after the expedition from the Honduran mainland (Grids: EK55, EK65 and EK75). Weather permitting, he may also try to give out EK76 from the boat on the way to and from the island.

[ANS thanks Bill, NZ5N for the above information]

/EX

SB SAT @ AMSAT $ANS-062.07
WorkedGrids Software Released

AMSAT News Service Bulletin 062.07
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.07

Bert, VE2ZAZ released WorkedGrids, ham log grid square mapping software this week. It is freeware and it runs under Windows. The program displays a map showing the amateur radio grid squares contacted and logged in using third-party logging program.

WorkedGrids uses colors to display information on a per-band basis. Up to four bands can be displayed concurrently on the map. The program reads plain-text (ASCII) log files generated by most logging programs.

The software is directed towards the VHF and above operators who collect grid squares for contesting or award purposes. It is designed to supplement a logging program and it replaces the pen and paper technique for marking worked grid squares.

Please visit http://ve2zaz.net for more details. Your input is welcome!

[ANS thanks Bert, VE2ZAZ for the above information]

/EX

SB SAT @ AMSAT $ANS-062.08
PCSAT Re-Enters Eclipse

AMSAT News Service Bulletin 062.08
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.08

PCSAT-1 was fully operational from 8 to about 23 Feb 2008 during full sun oribts. PCSAT has re-entered eclipses which marks the end February's Satellite Simulated Emergency Test. Bob, WB4APR received 31 reports of AMSAT users sending their SSET Email and receiving it.

When the 145.825 MHz RS0ISS-4 packet digipeater is active aboard the ISS users can continue to send SSET test e-mail messages. PCSAT does work for a few lucky packets during mid-day passes. The next full sun operating period will not occur until the Fall.

See: http://www.ew.usna.edu/~bruninga/sset.html for more information on how you can participate in SSET.

[ANS thanks Bob, WB4APR for the above information]

/EX

SB SAT @ AMSAT $ANS-062.09
ARISS Status Report for the Week of February 25, 2008

AMSAT News Service Bulletin 062.09
>From AMSAT HQ SILVER SPRING, MD.
March 2, 2008
To All RADIO AMATEURS
BID: $ANS-062.09

1. School Contacts

An ARISS contact took place with College Reydellet in Saint-Denis, Ile de La Rï¿½union on Monday, February 25. Approximately 550 students, ages 10-17, attend the school. ESA astronaut Lï¿½opold Eyharts, FX0STD /KE5FNO, participated in this contact which was conducted in French.

An ARISS contact has been scheduled for Lycï¿½e de la Borde Basse in Castres, France on Wednesday, March 5. In preparation for the contact, teachers will focus on science applications and the ISS. Activities planned include a visit to the Citï¿½ de lï¿½espace in Toulouse and a meeting with a scientist residing in Castres, founder of the ï¿½Terre et Espaceï¿½ association (Earth & Space), who has volunteered to give a presentation to the students on work in space and astronaut training techniques. Students will be divided into different study groups according to personal interest in various related subjects such as the implementation and launch of ISS space modules, re-supply missions, life in micro-gravitational environments and experiments carried out onboard the ISS. Students will prepare questions in French and English on various subjects. ESA astronaut Lï¿½opold Eyharts, FX0STD/KE5FNO, plans

to participate in this contact.

2. Robspierre School Contact Successful

On Thursday, February 21, students at Robespierre Elementary School in Rueil Malmaison, France experienced an ARISS contact. Sixteen students asked one question each of ESA astronaut Lï¿½opold Eyharts, FX0STD/KE5FNO.
Approximately two hundred students, teachers, parents and others in the community attended. Prior to the contact, talks were given to the students about space, the Columbus module, amateur radio, AMSAT-France and ARISS. The national newspapers France Soir, le Parisien and Espace Magazine, and radio and television stations France Inter, RTL, Europe 1 covered the news.

3. ESA Press Release on Eyharts - ARISS Contacts

The European Space Agency (ESA) announced the ARISS contacts that ESA astronaut Leopold Eyharts will participate in. The notice was posted on its Web site. See:
http://www.esa.int/SPECIALS/Columbus_Blog/SEM1JYVHJCF_0.html

4. ARISS International Team Meeting Held

On February 19, the monthly ARISS Team teleconference was held. Topics of discussion included the upcoming ARISS Face to Face Meeting, the Amateur

Radio Working Group (ARWG) and SuitSat-2. Minutes have been posted to the ARISS Web site. See: http://www.rac.ca/ariss/arisstel2008-02-19.htm

5. ARISS Presentation at Embedded Systems Conference
ARISS member Steve Bible, N7HPR, will present the amateur radio satellite
SuitSat-1 as a ï¿½teardownï¿½ subject for the Embedded Systems Conference in
San Jose, California on April 16, 2008. He will also speak on the current
development of SuitSat-2. See:
http://www.cmp-egevents.com/web/esv/event-highlights/teardowns?cid=ESCWK8

6. ARISS ï¿½ One Reason to Love the ISS

On February 14, Universe Today published an article, ï¿½I Heart the ISS:

Ten Reasons to Love the International Space Station.ï¿½ Reason number 6 cites ARISS and EarthKAM as educational programs that the general public

can participate in. See:
http://www.universetoday.com/2008/02/14/i-heart-the-iss-ten-reasons-to-love-
the-international-space-station/

7. Crew Debrief Sessions

Two ISS crewmembers will participate in ARISS debrief sessions during the upcoming week. Space visitor Dr. Sheikh Muszaphar Shukor, 9W2MUS, is scheduled for Tuesday, February 26, and astronaut Dan Tani will participate in a short session on February 29.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

47. Amateur Radio License Exam Preparation Software

Newsgroup: rec.radio.amateur.space
Date: 2008-03-05 08:30:48 UTC
From: Webmaster <webmaster@oaklanesoftware.com>
Message-ID: <RSszj.11477$QC.7028@newsfe20.lga>
Source record: 977
Cross-posted to:
rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.amateur.spacerec.radio.scanner,rec.radio.amateur.swap

Amateur Radio License Exam Preparation Software
Getting your Amateur Radio License has never been easier. Effective February 23, 2007 the FCC removed the Morse Code requirements for all Amateur Radio License Classes . Since that date, applicants for a Technician, General or Extra Class Amateur Radio License no longer have to demonstrate proficiency in Morse Code. You just have to pass the applicable written examination.

That's where we come in. Our amateur radio license exam preparation software serves as a training aid to help amateurs and prospective amateurs pass the Volunteer Examiner Coordinator's (VEC's) administered exam. When you can consistently pass the exams given by our exam preparation software, you will almost certainly pass an actual Volunteer Examiner Coordinator's (VEC's) administered exam.

Our amateur radio license exam preparation software uses the latest officially released Volunteer Examiner Coordinator's (VEC's) approved question pools. The program breaks the test into different sub-element. Integrated into the software are illustrations and Part 97 rules pertaining to the current question. The program tracks the progress of the tests taken. Once you have mastered each sub-element you are ready for the officially administered exam.

Visit our web site at http://www.oaklanesoftware.com

48. WSR-066 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-03-07 14:31:49 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c8805f$f5a55240$6701a8c0@familyroom>
Source record: 978
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-066.S1
WSR 066 Part 1 03/06/2008

AMSAT NEWS SERVICE BULLETIN 066.S1 FROM AMSAT HQ
SILVER SPRING, MD, March 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-066.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
Packet/APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[02282008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-066.S2
WSR 066 Part 2 03/06/2008

AMSAT NEWS SERVICE BULLETIN 066.S2 FROM AMSAT HQ
SILVER SPRING, MD, March 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-066.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[01312008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - OFF
Packet/APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[02282008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-066.S3
WSR 066 Part 3 03/06/2008

AMSAT NEWS SERVICE BULLETIN 066.S3 FROM AMSAT HQ
SILVER SPRING, MD, March 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-066.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-066.S4
WSR 066 Part 4 03/06/2008

AMSAT NEWS SERVICE BULLETIN 066.S4 FROM AMSAT HQ
SILVER SPRING, MD, March 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-066.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[01172008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[01172008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[01172008]
=====
Compass 1
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[01172008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[01172008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: March 07, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[01172008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-066.S5
WSR 066 Part 5 03/06/2008

AMSAT NEWS SERVICE BULLETIN 066.S5 FROM AMSAT HQ
SILVER SPRING, MD, March 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-066.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

49. Radio Meteor Obs. Bull. February 2008

Newsgroup: rec.radio.amateur.space
Date: 2008-03-08 10:36:37 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <d0r4t312afuinbsppaa7pqbicbjkr7rpsb@4ax.com>
Source record: 979
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 175 of February 2008 (59 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0802.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

50. ANS-069 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-03-09 16:15:56 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c881fa$10e9bd20$6701a8c0@familyroom>
Source record: 980
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-069

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AO-51 March Schedule
* College Night Successful on AO-51
* AO-16 Status Update
* AMSAT Events for 14/15 March 2008
* AMSAT Store Down for Upgrade
* AMSAT Block of Rooms at Dayton
* ARISS Status - 03 March 2008

SB SAT @ AMSAT $ANS-069.01
AO-51 March Schedule

AMSAT News Service Bulletin 069.01
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.01

Last month we concentrated on L uplinks and S downlinks. This month we'd like to concentrate on U band downlinks. In response to recent discussions
on AMSAT-BB, we are going to try two separate weeks of dual repeaters. Unlike the QRP restrictions we have had in the past, this time the only special restrictions are that regular users yield for university stations
that will be active on 27th. Please limit
contacts those dates to QSOs involving
at least one university station. If the second repeater is

not utilized, we may revert to digital operations.

The 435.150 repeater and 2401.200 downlinks may be temporarily suspended
for
WOD telemetry download without notice. Generally this will only be for
one
pass per day.

Regarding the graphic schedule, the software that does the schedule will
not allow for the proper display of some of the current modes or any
detailed information on special purposes. Please refer to the text page
for
mode
change information.
http://www.amsat.org/amsat-new/echo/CTNews.php

March 2008 AO-51 (AMSAT Echo) Schedule

March 1 until March 31, subject to modification

March 1 - March 2

FM Repeater, V/US
Uplink: 145.920 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

March 3 - March 9

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

FM Repeater, V/U
Uplink: 145.880 MHz FM, NO PL Tone
Downlink: 435.150 MHz FM

March 10 - March 16

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

9k6 Digital L/U BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

March 17 - March 23

FM Repeater, V/US
Uplink: 145.920 MHz FM, NO PL Tone
Downlinks: 435.300 and 2401.200 MHz FM

March 24 - March 31

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

FM Repeater, V/U (March 27th please yield to university stations)
Uplink: 145.880 MHz FM, NO PL Tone
Downlink: 435.150 MHz FM

[ANS thanks Drew, KO4MA, for the above information]

/EX

SB SAT @ AMSAT $ANS-069.02
College Night Successful on AO-51

AMSAT News Service Bulletin 069.02
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.02

Jay, AA4FL reports that College Night was a success on AO-51. College stations
heard at the University Of Floriday (UF) during
the two evening passes (March 5 UTC)
were the University of Arkansas and a student
from the University of Kentucky. The
SEC was well represented! Contacts were made at UF by two students,
KI4LDJ (Dante) and N6WPV (Seth), and AA4FL (Jay), and included contacts with:
N0YK, N3UNM (Frostburg, MD, home of Frostburg state U), KI4VNV (UK student),
KB2HSH, KU4OS (mobile in Cocoa,FL), WD9EWK (portable in city park Phoenix),
W5YM (U ARK), N5AFV.

Thanks to all that participated. Look for us again on the next college night
on AO51, March 27th. Make sure to spread the word to college hams/club stations you may know.

[ANS thanks Jay, AA4FL, for the above information]

/EX

SB SAT @ AMSAT $ANS-069.03
AO-16 Status Update

AMSAT News Service Bulletin 069.03
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.03

AO-16 is doing quite well in its current mode.

AO-16 is currently operational as a Voice Repeater (Downlink is double sideband.):
Uplink: 145.9200 MHz FM
Downlink 437.0260 MHz DSB (LSB and USB)

The plan is to continue this mode of voice operations "until further notice.
"

AO-16 has been in full sunlight (no eclipse
periods at all) for several months.
That is about to change later this month! Short eclipse periods will begin
at
the end of March and will increase steadily until
early July--at which point the
eclipse periods will increase to about 26 minutes each orbit. We'll have to
watch this old bird and its batteries as the eclipse periods increase.

It is possible that the long eclipse periods may necessitate the reduction
of
the 70 cm transmitter output; this is a manual process for AO-16, since the
spacecraft isn't running any housekeeping
software to do it "automagically."
AO-16 is pretty loud at its current power
setting, so some reduction should have
little if any user impact. Observations and user reports will be especially
helpful during April/May/June/July this year. In order to collect telemetry,
we'll need to change the satellite into its
digital mode from time to time. But
this doesn't take long and therefore shouldn't interfere much with its operations as a voice satellite.

The S-band beacon is not operational at this time. The exact status of the
S-band transmitter remains unknown; however, its last known status might be
described as "suspect" or "semi-operational" at best. Given the age of the
satellite (over 18 years!), For now, this falls into the "maybe we should leave well enough alone" category.

[ANS thanks Mark, N8MH, for the above information]

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SB SAT @ AMSAT $ANS-069.04
AMSAT Events for 14/15 March 2008

AMSAT News Service Bulletin 069.04
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.04

Keith Pugh, W5IU, will be manning the AMSAT booth at the Green Country Hamfest
in Claremore, OK on the 14th and 15th of March. In addition to the booth there
will be satellite demos and a forum.

AMSAT Executive Vice President Lee McLamb, KU4OS, will be at the Stuart Hamfest
in Martin County, FL. Activities at the Stuart Hamfest include an AMSAT Booth
and FM satellite demonstrations.

A full day of activities are planned for the 2008 AMSAT-DC Meeting and Space
Seminar. Talks, demos, tutorials and socializing about amateur satellites
and
high-altitude balloon experiments will get underway starting at 1100 A.M.
local
on 15 March. The event will be held at the Historical Electronics Museum
(HEM)
at 1745 West Nursery Road, Linthicum, Maryland 21090 (near BWI airport). In
Pioneer Hall. For more information, contact Pat Kilroy, n8pk@amsat.org

[ANS thanks Lee, KU4OS, for the above information]

/EX

SB SAT @ AMSAT $ANS-069.05
AMSAT Store Down for Upgrade

AMSAT News Service Bulletin 069.05
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.05

he AMSAT web store is currently off-line while being upgraded. It is
anticipated that the upgraded store should be online within a few weeks.

Orders can still be placed and memberships renewed by contacting Martha in
the AMSAT office. You can send her an e-mail at Martha@amsat.org and she
will call you on the phone. From the US the AMSAT office can be called toll

free at (888) 322-6728, from all other locations call (301) 589-6062.
Martha will be out of the office from Wednesday, March 12 - Monday,
March
24th.

Alternatively you can send a fax to (301) 608-3410 or send a letter to
AMSAT, 850 Sligo Ave. Suite 600, Silver Spring, MD 20910.

[ANS thanks Gould, WA4SXM, for the above information]

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SB SAT @ AMSAT $ANS-069.06
AMSAT Block of Rooms at Dayton

AMSAT News Service Bulletin 069.06
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.06

AMSAT will once again have a block of rooms available for members at
The Dayton Hamvention. The AMSAT rate will be available from May 14
Through May 18. To reserve a room you can e-mail Martha at the AMSAT
Office (martha@amsat.org) or call her at (301) 589-6062; fax at
(301) 608-3410. She will need to know your name, yourdaytime phone
number, dates room needed, credit card number and expiration date.
Remember, "if you snooze, you lose"!

[ANS thanks JoAnne, K9JKM, for the above information]

/EX

SB SAT @ AMSAT $ANS-069.07
ARISS Status - 03 March 2008

AMSAT News Service Bulletin 069.07
From AMSAT HQ SILVER SPRING, MD.
March 9, 2008
To All RADIO AMATEURS
BID: $ANS-069.07

1. College Reydellet Contact Successful

On Monday, February 25, youth attending College
Reydellet in Saint-Denis, Ile de
La Rï¿½union experienced an Amateur Radio on the International Space
Station
(ARISS) contact with ESA astronaut Lï¿½opold
Eyharts, FX0STD/KE5FNO. Ten students
were able to ask one question each of the astronaut as approximately 75
students, teachers and parents looked on. Also in attendance were the
Regional
Director of Research and Technology (DRRT), the Colleges and Schools

Supervisor
and the Heads of educational institutions. At least part of the audio
from
this
event was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208)
servers
successfully. Fifteen connections were made from 10 countries. Media
coverage
included RFO Radio, TV Antenne-Reunion (correspondent of TF1, France's
national
TV), private broadcaster Festival and the local newspapers Le Quotidien
and
Le
Journal de l'ile. Photos have been posted on the ARISS-Europe Web site.
See:
http://www.ariss-eu.org/2008_02_26.htm
Le Journal de l'ile article, in French, can be found here:
http://archives.clicanoo.com/index.php?page=article&id_article5971
&recher
cheReydellet+ARISS

2. France Soir Article on Robespierre Contact

Robespierre Elementary School in Rueil Malmaison, France participated in
an
Amateur Radio on the International Space Station
(ARISS) contact on February 21.
France Soir covered news (in French) of the educational activity. Go to:
http://www.francesoir.fr/societe/2008/02/22/leopold-eyharts-en-direct-des
-
etoiles.html#SÃ©quence_1

3. Crew Debrief Sessions to be Rescheduled

The February debrief sessions planned with
astronaut Dan Tani, KD5DXE, and space
visitor Dr. Sheikh Muszaphar Shukor, 9W2MUS, were cancelled. They will
be
rescheduled in the near future.

4. ARISS Presentation at NARCON 2008

The National Association of Rocketryï¿½s National
Convention, NARCON 2008, will be
held March 14 ï¿½ 16 in Rochester, Minnesota. Will Marchant, KC6ROL,
will give
a
presentation on the Amateur Radio on the International Space Station
(ARISS)
educational outreach program during the seminar session. For more
information,
see:

http://www.narcon2008.org/event_info/seminars.htm

5. SuitSat-1 Article

On February 25, The Daily Galaxy ran an article on the amateur radio satellite
SuitSat-1 which was deployed on February 3, 2006. To view the article, see:
http://www.dailygalaxy.com/my_weblog/2008/02/suitsat-one--th.html

6. Astronaut Training Status

Amateur Radio on the International Space Station (ARISS) training sessions
are
being planned for astronauts Nicole Stott, KE5GJN, Sandy Magnus, KE5FYE, and Bob
Thirsk, VA3CSA. Magnus is expected to be a crewmember of Expedition 17/18,
flying to the ISS on STS-126 in September 2008. Stott, a member of the
Expedition 19 crew, will fly on STS-128 in May 2009 and Thirsk, a CSA astronaut,
will follow the same month on a Soyuz flight.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

51. WSR-073 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-03-13 02:25:06 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002501c884b1$6d59d220$6701a8c0@familyroom>
Source record: 981
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-073.S1
WSR 073 Part 1 03/13/2008

AMSAT NEWS SERVICE BULLETIN 073.S1 FROM AMSAT HQ
SILVER SPRING, MD, March 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-073.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
==AO-51 ECHO
Catalog number: 28375
```

Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[03132008]
==SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
==FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
==AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
==AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK
145.960 MHz FM 1200-baud Manchester FSK

Downlink: 437.026 MHz USB VOICE
1200-baud PSK

Mode-S Beacon: 2401.1428 MHz

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[01242008]
==AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO/FX0STD

STS-123 crew:
Commander: Dominic Gorie
Pilot: Gregory H. Johnson
Mission Specialist 1: Robert L. Behnken KE5GGX
Mission Specialist 2: Mike Foreman
Mission Specialist 3: Takao Doi
Mission Specialist 4: Rick Linnehan
Mission Specialist 5: Garrett Reisman (Up) KE5HAE
Mission Specialist 5: Lï¿½opold Eyharts (Down) KE5FNO/FX0STD

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-073.S2
WSR 073 Part 2 03/13/2008

AMSAT NEWS SERVICE BULLETIN 073.S2 FROM AMSAT HQ
SILVER SPRING, MD, March 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-073.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
==CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
==PO-63 PEHUENSAT-1

Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
==NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
==GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
==CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
==CO-57 CubeSat XI-IV
Catalog number: 27848

Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
==CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
==CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM

2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[03132008]
==NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
==GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
==UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
==RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Leopold Eyharts KE5FNO/FX0STD

STS-123 crew:
Commander: Dominic Gorie
Pilot: Gregory H. Johnson
Mission Specialist 1: Robert L. Behnken KE5GGX
Mission Specialist 2: Mike Foreman
Mission Specialist 3: Takao Doi
Mission Specialist 4: Rick Linnehan
Mission Specialist 5: Garrett Reisman (Up) KE5HAE
Mission Specialist 5: Lï¿½opold Eyharts (Down) KE5FNO/FX0STD

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-073.S3
WSR 073 Part 3 03/13/2008

AMSAT NEWS SERVICE BULLETIN 073.S3 FROM AMSAT HQ
SILVER SPRING, MD, March 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-073.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
==HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
==NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
==XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
==UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
==AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
==MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
==NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
==SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
==SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
==AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
==OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
==UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
==SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz

145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
==PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
==SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
==TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
==PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:

http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
==IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
==KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
==KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
==UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
==AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
==FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
==LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
==LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
==WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
==DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
==UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
==FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS

Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
==AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
==AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
==AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
==AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
==OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
==RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
==RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
==RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-073.S4
WSR 073 Part 4 03/13/2008

AMSAT NEWS SERVICE BULLETIN 073.S4 FROM AMSAT HQ
SILVER SPRING, MD, March 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-073.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
==PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
==Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
==Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialF
[03132008]
==AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial`
[03132008]
==Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialx
[03132008]
==Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialR
[03132008]
==Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialh
[03132008]
==Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial6
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-073.S5
WSR 073 Part 5 03/13/2008

AMSAT NEWS SERVICE BULLETIN 073.S5 FROM AMSAT HQ
SILVER SPRING, MD, March 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-073.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
==NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.

Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

52. <----New Group Seeking Exposure--->

Newsgroup: rec.radio.amateur.space
Date: 2008-03-15 21:09:21 UTC
From: Digital Voices <flyer1090@aol.com>
Message-ID: <uneot356865pl5hu4ue9fb7gfab2kushtd@4ax.com>
Source record: 982

<----New Group Seeking Exposure--->

Please Check Out the Maurice Davis Band

http://phlairline.com/mdb.html

DV

53. Apology

Newsgroup: rec.radio.amateur.space
Date: 2008-03-15 21:16:04 UTC
From: Digital Voices <flyer1090@aol.com>
Message-ID: <dveot31nas6jfqn6dtuo9rfgj4531nidom@4ax.com>
Source record: 983

The previous post was NOT meant for this group. And for that I apologize.

DV

QRT

54. ANS-076 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-03-17 13:19:40 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000d01c88831$89df7fc0$6701a8c0@familyroom>
Source record: 984
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-076

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Store Upgrade
* MIR +10
* AO-16 Report
* Satellite Shorts
* AMSAT-UK Colloquium - Call for Papers
* Satellite articles
* ARISS Status - 10 March 2008

SB SAT @ AMSAT $ANS-076.01
AMSAT Store Upgrade

AMSAT News Service Bulletin 076.01
From AMSAT HQ SILVER SPRING, MD.
March 16, 2008
To All RADIO AMATEURS
BID: $ANS-076.01

The AMSAT store on the website is obtaining a long required upgrade for many reasons. During this period, you could normaly call Martha at HQ in Silver Spring, MD. Unfortunately, Martha is going on a vacation taking her away from duties until the 25th. Be patient until she returns or the Store re-opens for business as usual.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-076.02
MIR +10

AMSAT News Service Bulletin 076.02
From AMSAT HQ SILVER SPRING, MD.
March 16, 2008

To All RADIO AMATEURS
BID: $ANS-076.02

ISS Amateur Radio Status: March 11, 2008
By Miles Mann WF1F,
Slow Scan TV from Space Station Mir, 10 years later.
On December 12, 1998 the crew members of the Russian
Space station Mir activated the Marex SSTV system.
Over the next two years the system broadcasted over
20,000 SSTV images back to earth via Amateur Radio.
te the 10 year anniversary of the successful
imaging project, the Marx team is planning on
upgrading our web page system to accommodate the many
images that were transmitted during the projects 2
year run. In 1998 we just did not have the resources
in place to handle the hundreds of images coming in
every day. As a result only a small select on of the
images were ever posted for public enjoyment.

73 Miles WF1F MAREX-MG

[ANS thanks Miles, WF1F, for the above information]

/EX

SB SAT @ AMSAT $ANS-076.03
AO-16 Report

AMSAT News Service Bulletin 076.03
From AMSAT HQ SILVER SPRING, MD.
March 16, 2008
To All RADIO AMATEURS
BID: $ANS-076.03

The AO-16 Command Team invites radio amateurs to continue to use
the voice mode of operations. Mark, N8MH says, "The plan is to
continue this mode of voice operations until further notice."

AO-16 has been in full sunlight (no eclipse periods at all) for
several months. That is about to change later this month! Short
eclipse periods will begin at the end of March and will increase
steadily until early July--at which point the eclipse periods will
increase to about 26 minutes each orbit. We'll have to watch this
old bird and its batteries as the eclipse periods increase.

The S-band beacon is not operational at this time. The exact
status of the S-band transmitter remains unknown.

The AO-16 Command Team has updated the weekly satellite report
entry for this satellite:

AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE
Current Mode: V/U

Uplink:
145.900 MHz RESERVED
145.920 MHz FM VOICE
145.940 MHz RESERVED
145.960 MHz RESERVED

Downlink: 437.026 MHz USB VOICE

[1200-baud PSK-MBL Telemetry Only]

Mode-S Beacon: 2401.1428 MHz [No Future Operations Planed]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

[ANS thanks Mark, N8MH, for the above information]

/EX

SB SAT @ AMSAT $ANS-076.04
Satellite Shorts

AMSAT News Service Bulletin 076.04
From AMSAT HQ SILVER SPRING, MD.
March 16, 2008
To All RADIO AMATEURS
BID: $ANS-076.04

#1. AMSAT and TAPR will again have a combined Banquet during the 2008 Dayton Hamvention. Unfortunately the Air Force is no longer offering the museum for non-military events. The 2008 AMSAT/TAPR Banquet will be Friday night, May 16 at the Kohler Presidential Banquet Center in Kettering, OH. Banquet times, the menu and the cost will be announced shortly, but all are expected to be similar to past banquets. Mark you calendar for Friday, May 16 and join your AMSAT and TAPR friends for an enjoyable evening.

#2. The AMSAT Engineering video featuring Bob McGwier had to be moved. The new URL is mms://media.wmfd.com/amsat/EngMovie08.wmv Bob discusses the engineering team plans for the next year. They have a number of things on their plate and it looks like a productive year for AMSAT Engineering. Thanks to Rob and Gunther Meisse and WMFD for hosting the video. We have a number of other amateur videos in production.

#3. We are evaluating placing the current AO-51 mode on the front page of the AMSAT web site for a few weeks. We will change the display as the mode changes. You can see the entire month's schedule at http://www.amsat.org/amsat-new/echo/CTNews.php.

Thanks,
Gould

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-076.05
AMSAT-UK Colloquium - Call for Papers

AMSAT News Service Bulletin 076.05
From AMSAT HQ SILVER SPRING, MD.
March 16, 2008
To All RADIO AMATEURS
BID: $ANS-076.05

AMSAT-UK Colloquium - Call for Papers

This is the first call for speakers for the 22nd Amsat-UK Colloquium which will be held at Surrey University, Guildford, Surrey, U.K., from Friday 25th July to Sunday 27th July 2007.

Details of this and previous events can be found at:
http://www.uk.amsat.org/content/view/32/42/

Amsat-UK invite speakers, about amateur radio space and associated activities, for this event. They are also invited to submit papers for the "Proceedings" document which will be published at the same time but printed papers are not mandatory. We normally prefer authors to present talks themselves rather than having someone else give them in the authors' absence. We also welcome "unpresented" papers for the Proceedings document.

Offers of talks should be submitted as soon as possible; the final date for full documents to be received is late-June 2007 in order that the "Proceedings" document be available to participants.

Submissions should be sent *ONLY* to G4DPZ, via the following routes:

Internet e-mail: dave @ g4dpz dot me dot uk

SnailMail: QTHR from http://www.qrz.com

AMSAT-UK also invite anyone with requests for Program Topics to submit them as soon as possible to G4DPZ. Invitations for any papers on specific subjects will be included in the future call. Likewise if anyone knows of a good speaker, please send contact and other information to G4DPZ.

73

Dave
G4DPZ

[ANS thanks Dave, G4DPZ, for the above information]

/EX

SB SAT @ AMSAT $ANS-076.06
Satellite articles

AMSAT News Service Bulletin 076.06
From AMSAT HQ SILVER SPRING, MD.
March 16, 2008
To All RADIO AMATEURS
BID: $ANS-076.06

Hi all,

I have published several articles in relation to ham satellites in AMSAT and other magazines such as URE, CQ-DL, Megahertz Magazine and several Webs. But most of them were in Spanish. I have translated them into English, you can find the following issues:

- The CJU antenna. It was designed by EB4DKA and EA4CYQ to improve the UHF reception with your HT, it is thought to uplink with your VHF mobile station. You will receive the UHF downlink in the same way a fix satellite station.

- The IOio antenna. It was designed by EA4CYQ to work V/U and U/V amateur satellites with an HT. It has an amazing performance, it is even better than the Arrow antenna in some features.

- A dual band portable yagui antenna. This is a very well known antenna into the amateur satellites world. Here you can find how to build it with normal stuff and an impressive performance.

- The EGGBEATER II and TPM II antennas. They were designed by Jerry K5OE. In this article I tell my experience at the beginning in the amateur satellites world and all the vicissitudes to work amateur satellites from my shack with the minimal equipment. Here you will find all the details to build these fantastic antennas.

- The 2.4GHz DISH ANTENNA. Taking advantage of my AO-40 experience I could go more deeply into the microwaves world. Here you can find all the details to build two different 2.4GHz dish feed systems, which you will be able to use in wireless terrestrial communications.

- The LINEAR TRANSPONDERS. A lot of amateur satellites use this system. This article will help you to understand how they work.

- HF or SATELLITES?. I try to demonstrate with this article that a satellite fix station is at least as good as an HF station. You will get the same performance with small antennas and low power out.

- The DATA CONNECTOR. This connector has much more possibilities than to be hooked to a TNC. In this article I study its features and I propose to use it with a PC soundcard, to receive meteorological satellites and I even propose to build a cross band repeater. You will be surprised about its possibilities.

- CIRCULAR POLARIZATION. If you want to know more about this kind of polarization and you want to see a comparative of VHF and UHF circular

polarized commercial antennas, you should read this article.

- TRANSCEIVERS TO WORK SATELLITES. If you are thinking about setting up a fix satellite station, here you can find all the transceivers in the market and combinations between them to be successful.

- THE EA4CYQ SHACK. Here I describe my shack, perhaps it could be useful as a reference if you are thinking about setting up one.

- THE EA4CYQ LOG. If you have contacted with my station between June 1.996 and March 2.008, here you can find it. It is in call sign alphabetical order. We will upload it in the near future.

You can find them at the following Webs due to the generosity of Pedro EB4DKA and Rodolfo EA4CAX:

http://eb4dka.laserenadigital.com (also www.eb4dka.tk). This Web is devoted to ham satellites and Pedro has an impressive collection of photos, videos and interesting articles. He is an authority working in portable conditions.

http://personales.ya.com/ea4cax/ Rodolfo is specialized in LEO and Geostationary meteorological satellites.

O hope you enjoy this articles devoted to promote the amateur satellites.

Juan Antonio
EA4CYQ@amsat.org
73s

Best 73 from Spain
Pedro EB4DKA
eb4dka@amsat.org

[ANS thanks Pedro, EB4DKA, for the above information]

/EX

SB SAT @ AMSAT $ANS-076.07
ARISS Status - 10 March 2008

AMSAT News Service Bulletin 076.07
From AMSAT HQ SILVER SPRING, MD.
March 10, 2008
To All RADIO AMATEURS
BID: $ANS-076.07

1. Lycï¿½e de la Borde Basse Contact Successful

An Amateur Radio on the International Space Station (ARISS) contact with Lycï¿½e de la Borde Basse in Castres, France took place on Wednesday, March 5. ESA astronaut Lï¿½opold Eyharts, FX0STD/KE5FNO, answered 10 questions posed to him by as many students. A representative from the ESA Education Office gave a presentation to the school and a

photographer was present to cover this event. The contact audio was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) servers, receiving 7 connections from 6 countries. La Depeche du Midi ran a Web story on the event. The article is written in French. See: http://www.ladepeche.fr/article/2008/03/06/440113-Castres-Les-lyceens-en-dir
ect-avec-l-espace.html

2. ARISS Face to Face Meeting to be Held in Moscow

The Amateur Radio on the International Space Station (ARISS) team will meet in Moscow, Russia this summer for its annual Face to Face Meeting. Delegates will arrive on July 15 for the July 17 -18 meeting. Plans are ongoing.

3. ARISS Crew Debrief Session

On Friday, March 7, a crew debrief was held with astronaut Dan Tani, KD5DXE. The Amateur Radio on the International Space Station (ARISS) team received feedback on the ARISS radio system onboard the ISS.

4. Astronaut Training Status

Two Amateur Radio on the International Space Station (ARISS) training sessions are planned for astronauts Nicole Stott, KE5GJN, and Sandy Magnus, KE5FYE, with Houston area school, Westbrook Intermediate. The training sessions, which are terrestrial-based amateur radio contacts using ARISS-equivalent equipment, are planned for Thursday, March 13 at approximately 14:50 and 15:15 UTC. Audio is expected to be fed into IRLP and EchoLink servers. Magnus is slated to be a crewmember of Expedition 17/18, flying to the ISS on STS-126 in September 2008. Stott, a member of the Expedition 19 crew, will fly on STS-128 in May 2009.

5. ARRL Article on AMSAT, ARISS

The American Radio Relay League (ARRL) ran a Web story covering the 2008 plans of the Radio Amateur Satellite Corporation (AMSAT). The Amateur Radio on the International Space Station (ARISS) educational outreach program and SuitSat-2 are included in this web story. See: http://www.arrl.org/news/features/2008/03/05/10005?nc=1

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

55. WSR-080 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-03-21 01:18:36 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001901c88af1$76fad2c0$6701a8c0@familyroom>
Source record: 985
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-080.S1
WSR 080 Part 1 03/20/2008

AMSAT NEWS SERVICE BULLETIN 080.S1 FROM AMSAT HQ
SILVER SPRING, MD, March 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-080.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
==AO-51 ECHO
Catalog number: 28375
```

Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[03202008]
==SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
==FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
==AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
==AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
==AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

STS-123 crew:
Commander: Dominic Gorie
Pilot: Gregory H. Johnson
Mission Specialist 1: Robert L. Behnken KE5GGX
Mission Specialist 2: Mike Foreman
Mission Specialist 3: Takao Doi
Mission Specialist 4: Rick Linnehan
Mission Specialist 5: Lï¿½opold Eyharts KE5FNO/FX0STD

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS

Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03202008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-080.S2
WSR 080 Part 2 03/20/2008

AMSAT NEWS SERVICE BULLETIN 080.S2 FROM AMSAT HQ
SILVER SPRING, MD, March 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-080.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
==CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
==PO-63 PEHUENSAT-1
Catalog Number: 29712

Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
==NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
==GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
==CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
==CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
==CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
==CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
==AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/us
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[03202008]
==NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
==GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM

1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
==UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
==RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
==INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson

Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

STS-123 crew:
Commander: Dominic Gorie
Pilot: Gregory H. Johnson
Mission Specialist 1: Robert L. Behnken KE5GGX
Mission Specialist 2: Mike Foreman
Mission Specialist 3: Takao Doi
Mission Specialist 4: Rick Linnehan
Mission Specialist 5: Lï¿½opold Eyharts KE5FNO/FX0STD

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03202008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-080.S3
WSR 080 Part 3 03/20/2008

AMSAT NEWS SERVICE BULLETIN 080.S3 FROM AMSAT HQ
SILVER SPRING, MD, March 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-080.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
==HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
==NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
==XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php

[01222007]
==UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
==AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
==MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
==NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
==SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
==SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
==AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
==OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
==UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
==SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz

145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
==PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
==SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
==TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
==PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:

http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
==IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
==KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
==KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
==UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
==AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
==FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
==LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
==LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
==WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
==DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
==UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
==FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS

Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
==AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
==AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
==AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
==AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
==OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
==RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
==RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
==RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-080.S4
WSR 080 Part 4 03/20/2008

AMSAT NEWS SERVICE BULLETIN 080.S4 FROM AMSAT HQ
SILVER SPRING, MD, March 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-080.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
==PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
==Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
==Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialF
[03132008]
==AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial`
[03132008]
==Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialx
[03132008]
==Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialR
[03132008]
==Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serialh
[03132008]
==Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial6
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-080.S5
WSR 080 Part 5 03/20/2008

AMSAT NEWS SERVICE BULLETIN 080.S5 FROM AMSAT HQ
SILVER SPRING, MD, March 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-080.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
==NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.

Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
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56. ANS-083 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-03-23 05:41:06 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002801c88c9d$d62a9c50$6701a8c0@familyroom>
Source record: 986
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-083

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT Notes Passing of Arthur C. Clarke
* AO-51 Schedule Update - Dual Repeater Mode March 24-31
* College Satellite Night March 27 on AO-51
* GO-32 Satellite Carried Digital Messaging in Hospital Drill
* AMSAT-DC Meeting Recap
* OSCAR-11 Celebrates 24th Birthday
* NASA Award for VK5ZAI
* Satellite Shorts From All Over
* ARISS Status Report for the week of March 17, 2008
* Black Hole RF Signatures at 29-47 MHz

SB SAT @ AMSAT $ANS-083.01
AMSAT Notes Passing of Arthur C. Clarke

AMSAT News Service Bulletin 083.01
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.01

This week marked the passing of Arthur C. Clarke, author of more than 100 published books in which he foresaw the future of technology, promoted the possibilities of human innovation and exploration and combined these with the ability to explain these to non-scientific readers.

The most famous example is from 1945, when he first proposed the idea of communications satellites that could be based in geostationary orbits, which keep satellites in a fixed position relative to the ground.

Tom Clark, K3IO recalled, "You might be interested in knowing that Arthur was an AMSAT Life Member. His member number, quite fittingly, was LM-2001."

Tom continued, "In the 1970's and 80's, Arthur was a frequent visitor to NASA. He was listed in the Goddard phone director as a consultant in the LANDSAT group, and he also served as a consultant at NASA HQ. In the early 1980's (when I was AMSAT President), on a trip to Washington, Dick Daniels (W4PUJ), Jan King (W3GEY) and I made the presentation of honorary AMSAT LM-2001 to Arthur. He was most appreciative and spent a couple of hours talking with us about our being the "Wright Brothers" of the satellite world, building satellites in our basements and garages."

Arthur communicated with us several times in the years following that visit. He asked that his LM-2001 Journal subscription be sent in his name to a library in Sri Lanka.

[ANS thanks Tom, K3IO and the Washington Post for the above information]

/EX

SB SAT @ AMSAT $ANS-083.02
AO-51 Schedule Update - Dual Repeater Mode March 24-31

AMSAT News Service Bulletin 083.02
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.02

AO-51 will be in dual V/U repeater mode the week of March 24 - 31. Take advantage of the much less crowded second repeater. On Thursday, March 27, please attempt to contact the active University stations.

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

FM Repeater, V/U (March 27th please yield to university stations)
Uplink: 145.880 MHz FM, NO PL Tone
Downlink: 435.150 MHz FM

On Wed morning March 26, the second repeater will be off for testing during a portion of the morning passes.

[ANS thanks Gould, WA4SXM, AO-51 Control Station for the above information]

/EX

SB SAT @ AMSAT $ANS-083.03
College Satellite Night March 27 on AO-51

AMSAT News Service Bulletin 083.03
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.03

College Satellite Night will be held Thursday March 27, 2008 (local time). AMSAT Operations is supporting this event by dedicating a second repeater onboard AO-51 to college operations only for this date. Previous events have had the colleges well represented on the air.

This event is a great opportunity for hams who are satellite active to interact with existing college operators and/or to elmer a new generation!

Do you know a college student who would find amateur satellites interesting and intellectually challenging? Have them as a guest at your station and introduce them to amateur radio in a way they will never forget.

AMSAT has a dedicated orbiting repeater set aside for the evening on satellite AO51 for this event:

Uplink: 145.880 MHz FM, NO PL Tone
Downlink: 435.150 MHz FM.

Even if you are not set-up for transmission please listen in. You can find satellite pass information for the evening at:
http://www.amsat.org/amsat-new/tools/predict/

Hope to see you on the birds!

[ANS thanks Drew, KO4MA, AMSAT-VP Operations and Dr. Jay Garlitz, AA4FL for the above information]

/EX

SB SAT @ AMSAT $ANS-083.04
GO-32 Satellite Carried Digital Messaging in Hospital Drill

AMSAT News Service Bulletin 083.04
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.04

On March 12 Shands hospital in Gainesville, FL conducted a simulated emergency communications drill. Students and faculty with the Gator Amateur Radio Club at the University of Florida participated.

The University of Florida Dental School club station, W4DFU, used their satellite ground station to distribute an e-mail test message though the GO-32 amateur radio satellite. This provided proof of concept in a disaster scenario to augment Amateur Radio voice

communication if phone and internet services were down.

Keeping patient privacy laws in mind (HIPAA restrictions) they could not transmit sensitive personal or health related data via this mode. However, in support of the larger disaster scenario the satellite e-mail concept could be useful for getting list of supplies, reporting hazardous situations, and status reports.

A copy of the test message, sent entirely via GO-32, is included below as an example of the capability revealed by the Gator Amateur Radio Club:

>From: W4DFU
To: ALL
>Subject: test March 12th, your input
Keywords:

To : ALL
>From: W4DFU
Time: 124227UTC
Date: 12 Mar 2008

Hello All,

W4DFU, the club station of the University of Florida http://www.gatorradio.org, is located at the University's Health Center which is part of the UF Shands Hospital complex (http://www.shands.org/hospitals/uf/).

Our club is involved today in a test of emergency communi-cation at the hospital and we are sending this message as part of that effort. Please respond to our message and tell us where you are located and if you think GO32 and its group of users have emergency potential for relaying information in times of disaster where the Internet may not be available locally...and in which ways this could be of benefit where emergency voice communication could not...

Yours in public service through Amateur Radio

Dr. Jay Garlitz, AA4FL faculty advisor and trustee
Jeff Capehart, W4UFL, club station and repeater manager
Seth McNeill, N6WPV, club secretary
mcnese@ufl.edu

[ANS thanks Dr. Jay Garlitz, AA4FL and the Gator Amateur Radio Club at the University of Florida for the above information]

/EX

SB SAT @ AMSAT $ANS-083.05
AMSAT-DC Meeting Recap

AMSAT News Service Bulletin 083.05
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.05

AT ONE OF THE MOST INSPIRING annual local meetings to date, east coast AMSAT members learned how exciting and substantial the coming months will be as far as participating in experiments using Amateur Radio go in the stratosphere, in space, in workshops, in the public squares and in classrooms. Don't miss out on the good opportunities approaching. The time is NOW for you to start planning and practicing. Come, join the fun!

The http://patkilroy.com/amsat-dc/ web page is in the process of being updated with pictures here taken at the meeting by Art W4ART, Charlie K3VDB, and others as they come in, as well as notes taken by Bruce WA3SWJ, and various impressions offered by several others who attended.

We will recognize several contributing individuals by name soon!

THANK YOU to the presenters, to those who brought hardware for our hi-tech show 'n' tell, to those who helped publicize the event, to those who shared Pot Luck or munchie items, and those who helped with the room set up and strike. It was fun! You made this gathering inspiring and educational. You made this gathering one to remember!

[ANS thanks AMSAT Mid-Atlantic Metro-DC Area Coordinator Pat Kilroy, N8PK for the above information]

/EX

SB SAT @ AMSAT $ANS-083.06
OSCAR-11 Celebrates 24th Birthday

AMSAT News Service Bulletin 083.06
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.06

Clive, G3CWV noted, "OSCAR-11 celebrated its 24th birthday on 01 March 2008. It was designed, built and launched, within a time scale of six months, using commercially available components. Congratulations to Professor Sir Martin Sweeting G3YJO, his team at the University of Surrey and associated groups of radio amateurs, for their magnificient achievement."

Signal reports received from Peter ZL3TC, Mark KU7Z, John KB2HSH, Antonio EA1CXG, Edward BX1AD and Andrew VK5LAC indicate great variability in strength: sometimes very strong, sometimes undetectable, even at high elevations. Low signal strength was particularly noticeable at AOS and LOS.

The satellite is now in continuous sunlight, and this is expected to continue until mid March, when eclipses will start again. Unfortunately eclipses will then become a permanent feature of the orbit, which is likely to prevent any periods of sustained operation after March.

Listen for OSCAR-11's AFSK FM ASCII Telemetry on 145.826 MHz.

Refer to http://www.users.zetnet.co.uk/clivew/ for additional information.

[ANS thanks Clive, G3CWV for the above information]

/EX

SB SAT @ AMSAT $ANS-083.07
NASA Award for VK5ZAI

AMSAT News Service Bulletin 083.07
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.07

Congratulations are in order for Tony Hutchison VK5ZAI.

Known around the world for his involvement in facilitating amateur radio communications with orbiting space stations is Tony Hutchison VK5ZAI, who has just received a well deserved achievement award.

Tony is the Australian coordinator of the Amateur Radio on the International Space Station (ARISS) project is now the proud but humble recipient of a Group Achievement Award from NASAï¿½s Lyndon B. Johnson Space Centre in Houston Texas.

The citation on the award certificate is ï¿½For providing sustained outstanding engineering support which has resulted in a record number of successful ISS amateur radio contactsï¿½, and signed by the Johnson Space Centre Director, Michael Coats.

Tony VK5ZAI has for more than 15 years given many schools and groups the opportunity to talk with space station crew. A notable occasion was the Australian Scout Jamboree in January 2007 as part of the world scouting movementï¿½s centenary.

His involvement began in 1993 by assisted South Australiaï¿½s Loxton High School students talk with Cosmonaut Alex Serabrov on the MIR space station.

In 1998 Tony handled most of the communications between Australian-born Astronaut Andy Thomas VK5MIR and his family during his flight on MIR.

Soon after he was invited to be one of nine-approved ARISS telebridge stations and began handling most of the private family contacts for the first three crews on the International Space Station, along with

school contacts.

Tony has been involved in linking with school in many countries, and
the development of IRLP and Echolink for ARISS contacts, plus the
design of interface units used for ARISS telebridge contacts in
Australia and Europe.

[ANS thanks Jim Linton, VK3PC and Amateur Radio Newsline 1597
for the above information]

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SB SAT @ AMSAT $ANS-083.08
Satellite Shorts From All Over

AMSAT News Service Bulletin 083.08
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.08

+ AMSAT Field Day rules have been uploaded to:
http://www.amsat.org/amsat-new/awards/amsatfd.php
They will appear in the next issue of the AMSAT Journal.
Field Day will be June 28/29, 2008. Start preparing your Field
Day stations and offer assistance to local clubs in assembling a
station and instruct them in the best ways to operate the satellites.

+ We are moving the AMSAT Store to our own server in the AMSAT Office
to give us more control over its operation. Rick Hambly, W2GPS and
Dan Briner, AB3EN are working on getting the server, getting
additional
high speed lines into the office and getting the server software
operational and tested. Martha will be back in the office on Wednesday

March 25 to take any orders. We are looking at interim store
solutions
until our own AMSAT Store in operational in a few weeks.

+ AMSAT at the 2008 Dayton Hamvention! We are looking forward to
participating in the 2008 Dayton Hamvention. We will be in our
regular
location right across from the ARRL area, plus we will have an
additional
booth space. We have a great lineup of speakers for the Saturday
morning
forum, final list to be released very soon. Bob McGwier, N4HY and his
engineering team have promised us a great many new pieces of
operational
satellite hardware. Bob Davis, KF4KSS is building a full size Eagle
space frame that will be at Dayton. An operational SDX that will be
used
in both SuitSat-2 and the HASP (High Altitude Student Platform)

balloon
project this summer. We are also looking at a terrestrial deployment
of
this transponder. We will also have a well equipped satellite demon-
stration area right outside the Ball Arena entrance operating all the
amateur satellites passes Friday through Sunday. The AMSAT/TAPR
Banquet
will be Friday night at the Kohler Banquet Center. Menu and
reservation
information will be available in the next week or two. More
information
to follow.

+ Paul, VP9MU has released a general c/c++ astrodynamics library
which includes basic astronomy routines. Next up will be the orbit
propagators, and tracking routines. See:
http://homepage.mac.com/pclwillmott/GAL/index.html

+ Ben, N1WBV has released a guide focusing on etiquette and
operational guidelines for single-channel FM satellites:
PDF (35K) http://www.innismir.net/etc/CourteousAO51_v1.1.pdf
DOC (38K) http://www.innismir.net/etc/CourteousAO51_v1.1.doc

+ The 34th Annual Eastern VHF-UHF Conference and Dinner Banquet
will be held on April 18, 19 & 20th, 2008 at the Crowne Plaza
Hotel in Enfield, CT. Please see the site for further information:
http://www.newsvhf.com/vhfconf.html

+ Clint, K6LCS invites readers to download and print out his
4-page tutorial, "Working Ham Sats with Your HT". If you have
a print utility that makes brochures, you can get it all
on one page, duplex printing. See:
http://homepage.mac.com/clintbradford/FileSharing1.html

[ANS thanks everyone for the above information]

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SB SAT @ AMSAT $ANS-083.09
ARISS Status Report for the week of March 17, 2008

AMSAT News Service Bulletin 083.09
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.09

1. Upcoming School Contact

The Non Profit Organization Kodomo Support Project in Kyoto, Japan
has been approved for an ARISS contact on Wednesday, March 26. The
Project was established in 2006 to provide a network for parents
and the community to support the social, mental and physical

education of children. Participants will learn about wireless communication, space and science technology.

2. Lycee mixte Renï¿½ Gosse Contact Successful

On Monday, March 10, students at Lycee mixte Renï¿½ Gosse in Clermont L'Herault, France participated in an ARISS contact. The scheduled contact at 08:32 UTC did not take place due to Eyhartsï¿½ work responsibilities. A request to reschedule the contact for the next orbit was made and the ARISS team quickly responded, setting up a telebridge station between Clermont l'Herault and Kingston, Australia. This second attempt was successful. Nine students were able to ask one question each of the astronaut. Approximately 50 students, ten teachers and more than 75 amateur radio operators were present. Audio was fed into the EchoLink server. Three regional and local newspapers covered the event, as well as 3 television broadcast stations.

3. Astronaut Training Status

On Thursday, March 13, an ARISS training session was held with Nicole Stott, KE5GJN, and Sandra Magnus, KE5FYE. Both astronauts successfully participated in terrestrial-based amateur radio contacts using ARISS-equivalent equipment with a Houston area school, Westbrook Intermediate.

An ARISS training session has been planned in late April for Canadian Space Agency astronaut Bob Thirsk, VA3CSA, and European Space Agency astronaut Frank DeWinne, ON1DWN.

4. Spaceflight Participant Receives Training on Amateur Radio

Richard Garriott, W5KWQ, will fly to the ISS in October 2008 as a spaceflight participant. He has received Russian training on the ARISS radio equipment and has posted an update covering this to his blog on his ï¿½Richard in Spaceï¿½ Web site (February 26 entries).
See: http://www.richardinspace.com/index.cfm?fuseaction=blog.welcome

5. ARISS Presentation Posted

Patricia Palazzolo, KB3NMS, a teacher at Upper St. Clair School in Pennsylvania, gave a presentation at the Radio Amateur Satellite Corporation (AMSAT) Space Symposium held in Pittsburgh in October 2007.

Her presentation, ï¿½Launching Dreams: The Long-term Impact of SAREX and ARISS on Student Achievementï¿½ covered her experiences with her students, the space program, the Shuttle Amateur Radio Experiment (SAREX) program and the ARISS program. She gives real life examples of the positive impact these experiences have had on her children. The presentation has been posted on the AMSAT Web site. See:
http://www.amsat.org/amsat/ariss/Presentations/AMSAT%20Symposiums/2007%20Sym
posium/Launching%20Dreams.pdf

[ANS thanks Carol, KB3LKI for the above information]

/EX

SB SAT @ AMSAT $ANS-083.10
Black Hole RF Signatures at 29-47 MHz

AMSAT News Service Bulletin 083.10
>From AMSAT HQ SILVER SPRING, MD.
March 23, 2008
To All RADIO AMATEURS
BID: $ANS-083.10

In closing, here is an item to discuss on the 2M repeater drive to work which may be more interesting than traffic, the weather, or the signs and symptoms of a gallbladder attack.

This week the UniverseToday website revealed that radio astronomers may be able to detect the evaporation and death of a primordial black hole by listening for their radio frequency emissions in the 29-47 MHz range.

Primordial black holes are remnants of the Big Bang and they are predicted to be knocking around in our universe right now. If they were 10^12 kg or bigger at the time of creation, they have enough mass to have survived constant evaporation from Hawking radiation over the 14 billion years since the beginning of the cosmos.

But what happens when the tiny black hole evaporates so small that it becomes so tightly wrapped around the structure of a fifth dimension (other than the "normal" three spatial dimensions and one time dimension)? Well, the black hole will explosively show itself, much like an elastic band snapping, emitting energy. These final moments will signify that the primordial black hole has died. What makes this exciting is that researchers believe they can detect these events as spikes of radio wave emissions and the hunt has already begun.

Interestingly, if their predictions are correct, this could provide evidence for the existence of a fifth dimension, a dimension operating at scales of billionths of a nanometer. If this exotic emission can be received, and if it is corroborated by both antennae, this could be evidence of the string theory prediction that there are more dimensions than the four we currently understand.

The Eight-meter-wavelength Transient Array (ETA) run by Virginia Tech Departments of Electrical & Computer Engineering and Physics, and the Pisgah Astronomical Research Institute (PARI), is currently taking high cadence radio wave observations and has been doing so for the past few months. This basic-looking antenna system, in fields in Montgomery County, North Carolina, giving researchers a unique opportunity to see primordial black holes as they die.

See the full story at:
http://www.universetoday.com/2008/03/16/when-black-holes-explode-measurin
g-t

he-emission-from-the-fifth-dimension/

[ANS thanks UniverseToday.com for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

57. ANS-090 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-03-30 19:03:33 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c89298$bcc39e00$6701a8c0@familyroom>
Source record: 987
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-090

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AO-51 Schedule - April 2008
* Satellite Demo Videos
* AMSAT Awards
* AMSAT Room Block at Dayton
* KiwiSAT Update
* ARISS Status - 24 March 2008

SB SAT @ AMSAT $ANS-090.01
AO-51 Schedule - April 2008

AMSAT News Service Bulletin 090.01
From AMSAT HQ SILVER SPRING, MD.
March 30, 2008
To All RADIO AMATEURS
BID: $ANS-090.01

The first week of April, AO-51 exits full illumination and our power budget will
shrink considerably. The length of the eclipses will increase throughout the month, and we'll have to closely monitor our power situation. The schedule reflects this, as the BBS will be active throughout the first two weeks of the
month. Additionally all AO-51 transmitters will be shut off on March 31st for a
special Whole Orbit Data collection before full illumination ends.

As the month progresses we will schedule some time with the L/U BBS switched to
a L/U repeater on an "as available" basis. Watch the webpage and ANS for announcements with further details.

April 2008 AO-51 Schedule

March 31 until April 30, subject to modification

March 31

All Transmitters OFF for WOD collection

April 1 - April 13

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

9k6 Digital L/U BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

April 14 - April 30

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

9k6 Digital L/U BBS and Telemetry
-- OR --
FM Repeater as available (exact dates to be announced)
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

The AO-51 Operations Group is made up of AMSAT Members who are also
AO-51 users.
The Operations Group works with the Command Team to create the monthly
schedule
for the satellite.

AO-51 Echo Mode Suggestion Email Address:
ao51-modes@amsat.org

73 KO4MA For AO-51 Operations Group
(KO4MA, WD9EWK/VA7EWK, N8MH, OZ1MY, VK5HI, WA4SXM)

[ANS thanks Drew, KO4MA, for the above information]

/EX

SB SAT @ AMSAT $ANS-090.02
Satellite Demo Videos

AMSAT News Service Bulletin 090.02
From AMSAT HQ SILVER SPRING, MD.
March 30, 2008
To All RADIO AMATEURS
BID: $ANS-090.02

Robert Davies, KI4HXT, has produced a Windows media video showing how to
work

AO-27. Dave Jordan, AA4KN does the actual satellite demonstration during the
2008 Orlando Hamcation. Dave describes the Doppler shift that will occur during
the pass, makes a number of contacts during the pass, then talks about setting
up the Kenwood TH-D7A hand held for analog satellite operation. Drew
Glasbrenner, KO4MA was doing a simultaneous demonstration and has a cameo
appearance describing the arc of the upcoming pass. This is about a 20 minute
video.

Bob McGwier, N4HY also has a video recorded in February that talks about the
AMSAT Engineering activities during the next few months. Good information about
a number of activities that are taking place this year. This is a 10 minute
video.

Videos can be found at http://www.ki4hxt.com/id5.html

Thanks to Robert for hosting these.

We are working on additional videos, stay tuned.

73,
Gould, WA4SXM
AMSAT VP User Services

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-090.03
AMSAT Awards

AMSAT News Service Bulletin 090.03
From AMSAT HQ SILVER SPRING, MD.
March 30, 2008
To All RADIO AMATEURS
BID: $ANS-090.03

We would like to welcome the following to the satellite community.

They have made their first satellite contact and are now members of the
AMSAT Satellite Communicators Club.

Kent Frazier, K5KNT
Jay Garlitz, AA4FL

The following have earned the AMSAT Satellite Communication Achievement
Award.

Patrick Stoddard, WD9EWK, #459
Francis Geraci, WB1FXX, #460
Jay Garlitz, AA4FL, #461

The following have earned the South Africa AMSAT Satellite Communicaton
Award.

Patrick Stoddard, WD9EWK, #US118
Jay Garlitz, AA4FL, #US119

To see all the awards visit http://www.amsat.org or
http://www.amsatnet.com

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-090.04
AMSAT Room Block at Dayton

AMSAT News Service Bulletin 090.04
From AMSAT HQ SILVER SPRING, MD.
March 30, 2008
To All RADIO AMATEURS
BID: $ANS-090.04

A reminder that time is running out. Over half the AMSAT room block for
Dayton has been reserved. If you are interested in a room, please give me a
call at 301-589-6062 between 10:00 AM and 6:00 PM (EDT), Monday-Friday.

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-090.05
KiwiSAT Update

AMSAT News Service Bulletin 090.05
From AMSAT HQ SILVER SPRING, MD.
March 30, 2008
To All RADIO AMATEURS
BID: $ANS-090.05

KiwiSAT will now carry an additional special beacon which, it is planned,
will
be used by radio amateurs around the world to collect data on atmospheric
aberrations to assist with finite information collection directly associated
with Global Warming concerns and Carbon Balance monitoring.

Details have yet to be finalized however the KiwiSAT structure has
been modified
to incorporate a second 70cm monopole mounted on the Z- face.
A high level of filtering has been incorporated to minimize any
desensitizing of
the on-board 70 cm receivers.
The operation of the beacon will be switched as required but will
normally be ON
for whole orbit data collection.

The KiwiSAT linear flight transponder is currently transmitting from the Whangaparaoa area with beam antennas pointing South.

Transponder is inverting type to compensate for Doppler shift when in orbit.
* Transmit Power is 2 Watts PEP.
* Beacon frequency is 145.885 MHz
* Uplink is from 435.265 to 435.235 MHZ LSB (note the sideband)
* Down link is from 145.850 to 145.880 MHz USB
A test transmission on 435.2544 LSB came out at 145.860 USB.

As it's a linear transponder 30kHz wide, any mode can be used, but FM is discouraged (but not banned). Amateur stations are encouraged to try out the transponder. Try to better the previous distance of record of 292 km previously
achieved with the prototype transponder (same location/antenna).

Reports welcome to < amsat-zl(at)kiwisat.org >

[ANS thanks AMSAT-ZL for the above information]

/EX

SB SAT @ AMSAT $ANS-090.06
ARISS Status - 24 March 2008

AMSAT News Service Bulletin 090.06
From AMSAT HQ SILVER SPRING, MD.
March 30, 2008
To All RADIO AMATEURS
BID: $ANS-090.06

1. Upcoming School Contacts

Shanghai Youth Centre of Science and Technology Education in Xuhui, Shanghai,
China has been scheduled for an Amateur Radio on the International Space Station
(ARISS) contact on Tuesday, April 1 at 08:10 UTC. The Centre is an after school
educational facility that educates teenagers in science and technology. It has
its own radio club, callsign BY4AY, which focuses on educating students in science and radio communications and in fabricating electronic toys.

2. Shukor Crew Debrief Scheduled

An Amateur Radio on the International Space Station (ARISS) crew debrief was scheduled for Dr. Sheikh Muszaphar Shukor, 9W2MUS, on Tuesday, March 25. The spaceflight participant performed 5 contacts with Malaysian school children while onboard the ISS in October 2007.

3. Garriott to Participate in ARISS Contacts

Space Adventures has posted an article covering the educational activities that

Richard Garriott, W5KWQ, has planned while he is onboard the
International Space
Station. Inspiring children at the Challenger Learning Centers and taking
part
in amateur radio contacts are among the activities in which he plans to
participate. See:
http://www.spaceadventures.com/index.cfm?fuseaction=news.viewnews&newsid=599

4. Amateur Radio Stations in Colorado Air and Space Museum

In promoting education, science and technology, Wings over the Rockies Air
and
Space Museum in Denver, Colorado has included amateur radio stations in its
Avionics display and efforts are well under way in setting up a station,
callsign K0WAR, in the International Space Station module exhibit. See:
http://wings.rmhcn.org/

5. ARISS International Team Meeting Held

The Amateur Radio on the International Space Station (ARISS) monthly
teleconference was held on Tuesday, March 18. Topics of discussion
included the
upcoming Moscow meeting, the ARISS nominating committee and SuitSat-2.
Minutes
have been posted. See: http://www.rac.ca/ariss/arisstel2008-03-18.htm
[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

58. WSR-087 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-03-30 19:04:23 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000101c89298$ded75f40$6701a8c0@familyroom>
Source record: 988
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-087.S1
WSR 087 Part 1 03/27/2008

AMSAT NEWS SERVICE BULLETIN 087.S1 FROM AMSAT HQ
SILVER SPRING, MD, March 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-087.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[03272008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03272008]
NNNN
/EX

SR 087 Part 2 03/27/2008

AMSAT NEWS SERVICE BULLETIN 087.S2 FROM AMSAT HQ
SILVER SPRING, MD, March 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-087.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====

PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[03272008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[03272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-087.S3
WSR 087 Part 3 03/27/2008

AMSAT NEWS SERVICE BULLETIN 087.S3 FROM AMSAT HQ
SILVER SPRING, MD, March 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-087.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-087.S4
WSR 087 Part 4 03/27/2008

AMSAT NEWS SERVICE BULLETIN 087.S4 FROM AMSAT HQ
SILVER SPRING, MD, March 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-087.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[03132008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[03132008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[03132008]
=====
Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[03132008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[03132008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-087.S5
WSR 087 Part 5 03/27/2008

AMSAT NEWS SERVICE BULLETIN 087.S5 FROM AMSAT HQ
SILVER SPRING, MD, March 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-087.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

59. WSR-094 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-04-04 02:11:36 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001801c895f9$311cde70$6701a8c0@familyroom>
Source record: 989
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-094.S1
WSR 094 Part 1 04/03/2008

AMSAT NEWS SERVICE BULLETIN 094.S1 FROM AMSAT HQ
SILVER SPRING, MD, April 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-094.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-094.S2
WSR 094 Part 2 04/03/2008

AMSAT NEWS SERVICE BULLETIN 094.S2 FROM AMSAT HQ
SILVER SPRING, MD, April 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-094.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[03272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-094.S3
WSR 094 Part 3 04/03/2008

AMSAT NEWS SERVICE BULLETIN 094.S3 FROM AMSAT HQ
SILVER SPRING, MD, April 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-094.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-094.S4
WSR 094 Part 4 04/03/2008

AMSAT NEWS SERVICE BULLETIN 094.S4 FROM AMSAT HQ
SILVER SPRING, MD, April 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-094.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[03132008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[03132008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[03132008]
=====
Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[03132008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[03132008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS $ANS-094.S5
WSR 094 Part 5 04/03/2008

AMSAT NEWS SERVICE BULLETIN 094.S5 FROM AMSAT HQ
SILVER SPRING, MD, April 03, 2008
TO ALL RADIO AMATEURS
BID: $ANS-094.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

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Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
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60. Radio Meteor Obs. Bull. March 2008

Newsgroup: rec.radio.amateur.space
Date: 2008-04-06 18:13:47 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <kl4iv358ch109tfa1gckk459v4k6s1nc3j@4ax.com>
Source record: 990
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 176 of March 2008 (65 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0803.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

61. ANS-097 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-04-06 19:50:40 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000401c8980f$26346b00$6801a8c0@familyroom>
Source record: 991
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-097

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Dayton Forums Schedule
* AMSAT Booth Volunteers
* DelfiC3 Update
* AMSAT Room Block at Dayton
* AO-51 Update
* ARISS Status - 24 March 2008

SB SAT @ AMSAT $ANS-097.01
Dayton Forums Schedule

AMSAT News Service Bulletin 097.01
From AMSAT HQ SILVER SPRING, MD.
April 6, 2008
To All RADIO AMATEURS
BID: $ANS-097.01

AMSAT Forum at Dayton Hamvention 0900-1130 Saturday, May 17
Forum Room 5
We have a great lineup of speakers for the AMSAT Fourm at Dayton this year. The forum will concentrate on discussing AMSAT projects and activites for this year.

Moderator: Barry A. Baines, WD4ASW AMSAT Corporate Secretary & VP-Special Projects

Rick Hambly, W2GPS AMSAT President and Robert Davis, KF4KSS AMSAT Director-Spacecraft Integration and Lab Manager, "AMSAT Update". Rick will present a status report on the Intelsat Negotiations, a brief update on Eagle, and AMSAT-DL's Phase 3-E Project. Bob will provide an overview of AMSAT's new Integration Lab in Pocomoke, MD as well as discuss the HASP (High Altitude Student Payload) and Cubesat Projects that are under development at the Lab.

Gould Smith, WA4SXM, AMSAT VP-Member & User Services, Andrew Glasbrenner, KO4MA AMSAT VP-Operations, and Mark Hammond, N8MH AMSAT Command Station, "AMSAT Satellite Operations Update" which will provide an overview of AO-51 as well as highlight how AO-16 has been reconfigured as a voice repeater satellite.

Matt Ettus, N2MJI, ACP System Engineer and Michelle Thompson, W5NYV ACP Ground Station Development Engineer, "AMSAT's Advanced Communications Package (ACP)". Matt and Michelle will provide an overview of the new communications system currently under development for Eagle and a potential payload package to be placed on a commercial geostationary satellite. ACP is designed to provide emergency communications using portable ground stations as well as make it possible for amateurs living in areas with CC&R restrictions to be able to communicate via our next generation satellite. They will explain why ACP is being developed and discuss both the work being done on the payload as well as the ground station component that is being developed concurrently.

Frank Bauer, KA3HDO AMSAT Director-Manned Space Programs, "A Ham Radio Operator's View of ARISS". Frank will outline several new initiatives under development for Amateur Radio on the International Space Station (ARISS) that will interest amateur radio operators as well as provide an overview of SuitSat-2 currently under development.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-097.02
AMSAT Booth Volunteers

AMSAT News Service Bulletin 097.02
From AMSAT HQ SILVER SPRING, MD.
April 6, 2008
To All RADIO AMATEURS
BID: $ANS-097.02

AMSAT Booth Volunteers for Dayton 2008

I am looking for volunteers to help in the AMSAT booth during the 2008 Dayton Hamvention, May 16-18. I would like people to volunteer for 2 hour shifts on Friday, Saturday and Sunday. Multiple shifts are welcome. I also need help with booth setup and take down on Thursday May 15 and Sunday May 18. With enough people we have been able to setup and take down the booth in 3 - 4 hours (or less). Please volunteer to Gould, WA4SXM at his callsign@amsat.org. This is a great opportunity to give back to AMSAT and to have an enjoyable time talking with other AMSAT members and future members.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-097.03
DelfiC3 Update

AMSAT News Service Bulletin 097.03
From AMSAT HQ SILVER SPRING, MD.
April 6, 2008
To All RADIO AMATEURS
BID: $ANS-097.03

DelfiC3 Provisional launch date April 21st

April 4th, 2008
Greetings from the clean room at Sriharikota!

The Delfi-C3 checkout team has safely arrived at the launch site
in India, and we are currently performing all checks on the space-
craft.

So far, everything goes as planned and we have found no problems.
Unfortunately, photography is not allowed on the base so you'll have
to use your imagination for now. Meanwhile, we will try to keep you
updated by posting text-only blog entries.

At this very moment, the team is building up the satellite into launch
configuration, which means attaching the solar panels, the wireless
sun sensors, and applying the final pieces of thermal tape and locking
glue. All major health checks have been successfully completed up to
this point so we know the spacecraft is in good health.

The linear transponder was tested for the last time before launch, and
it worked just fine.
Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Monitor http://www.delfic3.nl/photoblog/ for updates!

[ANS thanks Wouter Jan Ubbels VU/PE4WJ for the above information]

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SB SAT @ AMSAT $ANS-097.04
AMSAT Room Block at Dayton

AMSAT News Service Bulletin 097.04
From AMSAT HQ SILVER SPRING, MD.
April 6, 2008
To All RADIO AMATEURS
BID: $ANS-097.04

Once again, Dayton is about 6 weeks away. If you plan to attend,
we have a block of rooms reseved every year for our group.
Please call Martha with C/C info and the days you plan to be there
and she will make the reservations for you.

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-097.05
AO-51 Update

AMSAT News Service Bulletin 097.05
From AMSAT HQ SILVER SPRING, MD.
April 6, 2008
To All RADIO AMATEURS
BID: $ANS-097.05

AO-51 is running less power than last week.

Gould, WA4SXM, AO-51 Command station reported that the transmitter
power levels on AO-51 have been reduced.

1) The SQRX receiver is on for L band uplink for the bulletin board
2) We are starting to enter a new eclipse cycle this week.

TX B (analog) is 700 mW (was 820 mW)
TX A (digital) is 550 mW (was 550 mW)

We will reduce power slowly until mid June (eclipse length maximum),
then slowly increase it until early Sept when we will again enter a
no eclipse period for a number of months.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-097.06
ARISS Status - April 3, 2008

AMSAT News Service Bulletin 097.06
From AMSAT HQ SILVER SPRING, MD.
April 6, 2008
To All RADIO AMATEURS
BID: $ANS-097.06

Amateur Radio on the International Space Station (ARISS) Status Report

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has
been scheduled with Osnovna skola Pazin in Pazin, Croatia on Monday,
April 7 at 14:52 UTC. Eight hundred students are enrolled at the school
which has offered technical classes in robotics, electronics and
computer science for the past ten years. Students from Pazin's two high
schools are also expected to attend this event. The schools hope to
pique the students' interest in space and electronics through this
educational activity.

2. Kodomo Contact Successful

Youth from the Kodomo Support Project in Kyoto, Japan participated in a successful Amateur Radio on the International Space Station (ARISS) contact on Wednesday, March 26. One hundred thirty parents and community members watched as eighteen children asked astronaut Garrett Reisman, KE5HAE, twenty questions before the ISS went over the horizon. Three television stations, including NHK, the Japan Broadcasting Corporation, and seven newspapers covered the event. To view a video of the contact, go to: http://www.ariss.jp/kyoto/Kyoto.wmv

3. Shukor Crew Debrief Held

An Amateur Radio on the International Space Station (ARISS) crew debrief was held on Tuesday, March 25. Spaceflight participant Sheikh Muszaphar Shukor, 9W2MUS provided the team with feedback on his experience with ARISS contacts while onboard the ISS.

4. Articles Cover Upcoming Garriott Activities

Articles have been posted covering the educational activities that Richard Garriott, W5KWQ, has planned while onboard the International Space Station. These activities include contacting children at the Challenger Learning Centers and taking part in amateur radio contacts. Prior to flight, children can take part in a contest creating a design for a patch. Spaceref.com and the Challenger Center articles may be viewed here: http://www.spaceref.com/news/viewpr.html?pid=25010 http://www.challenger.org/programs/garriottdownlinks.cfm

5. Astronaut Training Status

An Amateur Radio on the International Space Station (ARISS) training session has been planned for astronauts Bob Thirsk, VA3CSA, and Chris Hadfield, KC5RNJ/VA3OOG, on Thursday, April 17. Thirsk is a scheduled crew member on Expedition 19; Hadfield is his back-up.

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

62. WSR-101 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-04-11 12:16:59 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c89bcd$e84e84c0$6801a8c0@familyroom>
Source record: 992
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-101.S1
WSR 101 Part 1 04/10/2008

AMSAT NEWS SERVICE BULLETIN 101.S1 FROM AMSAT HQ
SILVER SPRING, MD, April 10, 2008
TO ALL RADIO AMATEURS
BID: $ANS-101.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[03272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-101.S2
WSR 101 Part 2 04/10/2008

AMSAT NEWS SERVICE BULLETIN 101.S2 FROM AMSAT HQ
SILVER SPRING, MD, April 10, 2008
TO ALL RADIO AMATEURS
BID: $ANS-101.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16 crew:
Commander: Peggy Whitson
Flight Engineer: Yuri Malenchenko RK3DUP
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is

NOT translated from Russian and posted.
[03272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-101.S3
WSR 101 Part 3 04/10/2008

AMSAT NEWS SERVICE BULLETIN 101.S3 FROM AMSAT HQ
SILVER SPRING, MD, April 10, 2008
TO ALL RADIO AMATEURS
BID: $ANS-101.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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/EX

SB SAT @ AMSAT W8ISS ANS-101.S4
WSR 101 Part 4 04/10/2008

AMSAT NEWS SERVICE BULLETIN 101.S4 FROM AMSAT HQ
SILVER SPRING, MD, April 10, 2008
TO ALL RADIO AMATEURS
BID: $ANS-101.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[03132008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[03132008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[03132008]
=====
Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[03132008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[03132008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-101.S5
WSR 101 Part 5 04/10/2008

AMSAT NEWS SERVICE BULLETIN 101.S5 FROM AMSAT HQ
SILVER SPRING, MD, April 10, 2008
TO ALL RADIO AMATEURS
BID: $ANS-101.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

63. ANS-104 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-04-13 03:55:35 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701c89d03$69aa2480$6801a8c0@familyroom>
Source record: 993
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-104

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT Web Updates Highlight Dayton Activities
* AMSAT/TAPR Banquet at Dayton
* AO-16 Status Update
* DelfiC3 Update
* Houston AMSAT Net Audio Available on Podcast
* Scotland Calling Via Satellite
* TAPR Digital Communications Conference
* 42nd Annual CSVHFS Conference Call for Papers
* ARISS Status Report for the Week of April 7, 2008

SB SAT @ AMSAT $ANS-104.01
AMSAT Web Updates Highlight Dayton Activities

AMSAT News Service Bulletin 104.01
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.01

The AMSAT web site now contains information about AMSAT activities during the 2008 Dayton Hamvention.

Go to http://www.amsat.org and use the new Dayton button on the left hand navigation area or go directly there using this URL:
http://www.amsat.org/amsat-new/hamvention/2008/Dayton2008.php.

On the site you can find out about the:
+ AMSAT/TAPR Banquet
+ AMSAT Forum
+ Activities at the Booth
+ Thursday Pizza n' Suds
+ New AMSAT Offerings and displays at the booth

This will be a great opportunity to find out up to date information
about what is going on at AMSAT as well as talk with your Officers
and Board members. There will be a large outside satellite demon-
stration area and a daily "Introduction to Satellites" talk.

Here is a summary of the AMSAT offerings at the Booth:

Publications

Getting Started with Amateur Satellites (***Updated 2008) - $15
Frequency chart (2008 Update) - $5
Digital Satellite and Telemetry Guide (2005)
- $20 Guide with disk $30 (** Special)
AO-51 Operation, Development and Specifications (2005) - $20
Proceedings of the AMSAT-NA 2006 Space Symposium - $20

Software & CDs

SatPC32 - $40 (**** Dayton Special normally $45)
InstantTrack - $20 (**** Dayton Special normally $30)
MacDoppler - $80 AMSAT Members/ $100 others
NEW* DVD of 2004, 2005, 2007 Symposia. Papers/PowerPoint/audio - $30
NEW* Digital Disk with WiSP + digital files - $20

Apparel

NEW* AMSAT blue Golf Shirts - $30
NEW* AMSAT gold tee shirts $20
NEW* AMSAT Hats - $10
NEW* AMSAT blue long sleeve tee shirts $20
old AMSAT golf shirts $20
old AMSAT/Eagle Tee Shirts - $10

Hardware

LVB Tracker enclosure $50
LVB Tracker bare board $20
LVB Tracker box (complete built kit) $200
AMSAT 2 GB Flash drive $25 (***Dayton Special) normally $30
Arrow Antenna w/Duplexer - $139.00

Miscellaneous Merchandise You Can't Live Without

NEW* AMSAT lapel pin (***NEW***) $10
AMSAT measuring tape free with membership free, purchase $5
30th Anniversary AO-7 QSL Cards (**** Dayton Special)
- 100 cards - $5.00, 250 for $10
Eagle & ARISS Patches - $7.00
Eagle Decals - $5.00
$5 donation - 3 AMSAT Magnets or 2 AMSAT Pens
AMSAT computer backpacks - $30 (*** Dayton special)
AMSAT clocks $10

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-104.02
AMSAT/TAPR Banquet at Dayton

AMSAT News Service Bulletin 104.02
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.02

The second annual AMSAT/TAPR Banquet during Dayton Hamvention will be held Friday evening at the Kohler Presidental Banquet Center, Kettering, OH [just south of Dayton]. The evening will begin with a cash bar at 6:30 PM. Dinner will be served at 7:15. The Banquet Center has a reputation for good food and service, so don't miss this event.

Maps to the AMSAT/TAPR Banquet will be available at the AMSAT booth. Additional information and coordinates are posted on the AMSAT web site under the Dayton 2008 area.

The price for the dinner is $25.00 per person and includes a salad, entree, sides, desert, tax and gratuity. Coffee, tea and iced tea are included. Wine, beer and mixed drinks are available at the cash bar before and during the meal.

Reservations are required and must be made by Monday, 12 May 2008. Please contact Martha (martha@amsat.org) at the AMSAT office for information or call to make reservations. You can reach Martha from 10:00am to 6:00pm EDT at (301) 589-6062, or in the US toll free at (888)322-6728.

Banquet Menu
Fresh mixed green salad with assorted dressings
Roast Prime Rib of Beef au jus - carved on site
Marinated Roasted Garlic Rosemary Chicken Breast in lemon butter sauce
Salmon with Newburg sauce
Whipped potatoes
Normandy blended green beans
Fresh fruit bowl
Roll and butter
Coffee/ iced tea/ water
Assorted pies

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-104.03
AO-16 Status Update

AMSAT News Service Bulletin 104.03
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.03

Mark, N8MH reporting on behalf of the AO-16 control team says
that the satellite continues to operate well in its new voice
configuration. Use these frequencies to access the satellite:
+ Uplink: 145.920 MHz FM
+ Downlink: 437.026 MHz DSB (LSB and USB)

After several months of continuous illumination, AO-16 is again
experiencing short periods of eclipse. Recent telemetry indicates
that the spacecraft temperatures are decreasing a bit as a result.

As the eclipse periods of AO-16 continue to increase in the coming
months, we must continue to monitor the spacecraft power budget.
Spacecraft control is now limited to the Microsat Boot Loader (MBL).
Therefore, the power budget of AO-16 is managed by varying manually
the output power of the transmitter.

Users of AO-16 are encouraged to report any aberrant operations by
either posting to the AMSAT-BB or by emailing the command team at
n8mh@amsat.org. ï¿½Aberrant operationsï¿½ might include the following:

complete loss of signal from the spacecraft or significant change
in the transmitter frequency.

We are grateful to see significant activity on AO-16!

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-104.04
DelfiC3 Update

AMSAT News Service Bulletin 104.04
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.04

The DelfiC3 launch preparation team has arrived back at the Delft
University from launch preparations in India. Prior to departure
they performed the final steps of preparing Delfi-C3 for launch.

Delfi-C3 has been placed in its X-POD and left in the cleanroom
at Sriharikota. All the checks and tests have been performed to
satisfaction and the team is convinced that Delfi-C3 is completely
ready for a launch. Updates are posted at http://www.delfic3.nl.

The DelfiC3 team has posted an English PDF version of a presentation
on the Delfi-C3 satellite at:

http://www.delfic3.nl/forum/showthread.php?p#75#post2375

[ANS thanks Wouter Jan Ubbels, PE4WJ for the above information]

/EX

SB SAT @ AMSAT $ANS-104.05
Houston AMSAT Net Audio Available on Podcast

AMSAT News Service Bulletin 104.05
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.05

Bruce, KK5DO reported this week that he Houston AMSAT Net is
now available as a Podcast. You can subscribe to:

http://www.amsatnet.com/podcast.xml

Please let Bruce know off the list if there are any problems.
Net #734 and #735 are available. They will remain online for 4
weeks then roll off.

You can always download and listen with an MP3 player at
http://www.amsatnet.com/audio.html

Thanks to Dale, WD0AKO, for doing the encoding and creating our
album art.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-104.06
Scotland Calling Via Satellite

AMSAT News Service Bulletin 104.06
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.06

Paul, 2E1EUB will activate grid IO87rj near Aberdeen, Scotland on the
satellites for one week starting on April 12, 2008.

Paul says, "Is not an easy location for stateside but it is possible.
if you wish to work me, please be quick as only a small window for USA!
The window to Europe window is much easier."

Paul will be on all birds but mainly focusing on AO-7 SSB operating.
QSL is via home call 2E1EUB.

[ANS thanks Paul, 2E1EUB for the above information]

/EX

SB SAT @ AMSAT $ANS-104.07
TAPR Digital Communications Conference

AMSAT News Service Bulletin 104.07
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.07

Technical papers are solicited for presentation at the 27th Annual ARRL and TAPR Digital Communications Conference to be held September 26-28, 2008 in Chicago, Illinois. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2008. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@arrl.org

Papers will be published exactly as submitted and authors will retain all rights.

[ANS thanks Steve, WB8IMY at the ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-104.08
42nd Annual CSVHFS Conference Call for Papers

AMSAT News Service Bulletin 104.08
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.08

The Central States VHF Society is calling for the submission of papers and presentations for the upcoming 42nd Annual Central States VHF Society Conference to be held in Wichita, KS, 24-26 July 2008. Papers and presentations are solicited on both the technical and operational aspects of VHF, UHF and Microwave weak signal amateur radio. Some suggested areas of interest are:

* Antennas including Modeling/Design, Arrays, and Control;
* Construction of Equipment, such as Transmitters, Receivers, and Transverters
* RF power amps
* Pre-amplifiers (low noise)
* Test Equipment including Homebrew, Using, and Making Measurements
* Operating including Contesting, Roving, and DXpeditions
* Propagation including Ducting, Sporadic E, Tropospheric and Meteor Scatter, etc.

* Software-defined Radio (SDR)
* Digital Modes WSJT, JT65, etc.
* EME
* Digital Signal Processing (DSP)
* Regulatory topics

The deadline for the submission of papers and presentations is 15 May.
See http://www.csvhfs.org/conference/callforpapers.html for more
information

[ANS thanks the CSVHFS for the above information]

/EX

SB SAT @ AMSAT $ANS-104.09
ARISS Status Report for the Week of April 7, 2008

AMSAT News Service Bulletin 104.09
>From AMSAT HQ SILVER SPRING, MD.
April 13, 2008
To All RADIO AMATEURS
BID: $ANS-104.09

1. School Contacts

An ARISS contact was held with Osnovna skola Pazin in Pazin, Croatia on Monday, April 7. Eight hundred students are enrolled at the school which has offered technical classes in robotics, electronics and computer science for the past ten years. Students from Pazin's two high schools are also expected to attend this event. The schools hope to pique the students' interest in space and electronics through this educational activity. The audio for this event will be fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) servers.

An ARISS contact has been scheduled with Han Gwang Boys & Girls High School in Pyeong Taek City, Republic of Korea on Sunday, April 13. It has an amateur radio club station, DS0IC which is the largest school club station in Korea with approximately 150 operators (100 students and 50 teachers). South Korean space visitor Yi So-yeon plans to speak with the high school youth during this event.

Central Middle School in Parsippany, New Jersey, has been slated for an ARISS contact on Monday, April 14 at 17:05 UTC. An essay and presentation contest will be held to determine which students will speak with the astronaut. The New Providence Amateur Radio Club will assist with the contact. The event will be available through a live transmission to all local schools using amateur band fast scan television.

An ARISS contact has been scheduled with the National Science Museum of Korea on Thursday, April 17. The Museum is an umbrella organization of the Ministry of Education, Science and Technology. Spaceflight participant Yi So-yeon will participate in this educational activity.

2. Shanghai Students Experience ARISS Contact

On Tuesday, April 1, students attending the Shanghai Youth Centre of Science and Technology Education in Xuhui, Shanghai, China participated in an ARISS contact. Astronaut Garrett Reisman, KE5HAE, answered 8 questions posed to him by eight children as an audience of approximately

300 people looked on. Four television station and 8 newspapers covered the event.

3. Debrief Scheduled for Eyharts

The ARISS team has been scheduled for an Expedition 16 crew debrief with Leopold Eyharts, KE5FNO/FX0STD on Monday, April 7.

4. DLN ARISS Module Status

A draft version of the Digital Learning Network (DLN) ARISS module will be ready for review by the end of May 2008. The module will provide grades K-12 with a foundation of what amateur radio is and how it is used, information on NASA and ARISS and will incorporate demonstrations from ARISS lesson plans. It will also highlight special projects such as SuitSat-2. The DLN module will provide education resource links to be used pre- and post-ARISS contact and will give information on how to apply for a contact.

5. Christa McAuliffe Planetarium Radio Station

Six staff members at the Christa McAuliffe Planetarium in Concord, New Hampshire passed their amateur radio exams. Two made the General class; the rest Technician.

An amateur radio station will be set up at the planetarium on May 3 which will be capable of operating from HF to UHF and will have an antenna system for working satellites. The planetarium is home to the NASA Educator Resource Center (ERC) for New Hampshire.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

64. cheap wholesale prada shoes gucci shoes lacoste shoes dunk shoes puma shoes air force one shoes

Newsgroup: rec.radio.amateur.space
Date: 2008-04-14 13:40:27 UTC
From: ebayshoe1@yahoo.cn
Message-ID: <af14b1a3-e823-46b6-a4b4-0244eeb97749@t12g2000prg.googlegroups.com>
Source record: 994

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Bape Sta from nike outlets and factory stores, also Nike wholesale - Jordan Shoes. Nike Shoes, sport Shoes, Reebok Shoes,Basketball Shoes,prada,bapestar,Nike Shox,Dunks,Nike Flightposite ,Nike jordan Basketball ,K1X Chiefglider wholesale suppliers factory.We sale new Nike Sneakers,Air Jordan Sneakers,AIR FORCE 1S,Nike Dunks SB, Bape Sta
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wholesale Nike Air Max 97 Trainers
wholesale Nike Air Max 2003 Wholesale
wholesale Nike Air Max 2004 Shoes Wholesale
wholesale Nike Air Max 2005 Shop
wholesale Nike Air Max 2006 Shoes Shop
wholesale Nike Air Max 360 Catalogs
wholesale Nike Air Max Ltd Shoes Catalogs
wholesale Nike Air Max Tn Men's Shoes
wholesale Nike Air Max Tn 2 Women's Shoes
wholesale Nike Air Max Tn 3 Customize
wholesale Nike Air Max Tn 4 Shoes Customize
wholesale Nike Air Max Tn 6 Supply
wholesale Nike Shox NZ Shoes Supply
wholesale Nike Shox OZ Sale
wholesale Nike Shox TL Store
wholesale Nike Shox TL 2 Shoes Store
wholesale Nike Shox TL 3 Distributor
wholesale Nike Shox Bmw Shoes Distributor
wholesale Nike Shox Elite Shoes Manufacturer

wholesale Nike Shox Monster Manufacturer
wholesale Nike Shox R4 Running Shoes
wholesale Nike Shox R5 Mens Shoes
wholesale Nike Shox Ride Womens Shoes
wholesale Nike Shox Rival Shoes Wholesaler
wholesale Nike Shox Energia Wholesaler
wholesale Nike Shox LV Sneaker
wholesale Nike Shox Turbo Suppliers
wholesale Nike Shox Classic Shoes Suppliers
wholesale Nike Shox Dendara Trainer
wholesale Nike Air Jordan 1 Seller
wholesale Nike Air Jordan 2 Shoes Seller
wholesale Nike Air Jordan 3 Collection
wholesale Nike Air Jordan 4 Shoes Collection
wholesale Nike Air Jordan 5 Chaussure Shoes
wholesale Nike Air Jordan 6 Catalog
wholesale Nike Air Jordan 7 Shoes Catalog
wholesale Nike Air Jordan 8 Customized
wholesale Nike Air Jordan 9 Shoes Customized
wholesale Nike Air Jordan 10 Wholesalers
wholesale Nike Jordan 11 Shoes Wholesalers
wholesale Nike Air Jordan 12 Factory
wholesale Nike Air Jordan 13 Shoes Factory
wholesale Nike Air Jordan 14 Shoes Sell
wholesale Nike Air Jordan 16 Exporter
wholesale Nike Air Jordan 17 Shoes Exporter
wholesale Nike Air Jordan 18 Offer
wholesale Nike Air Jordan 19 Shoes Offer
wholesale Nike Air Jordan 20 Manufacture
wholesale Nike Jordan 21 Shoes Manufacture
wholesale Nike Air Force 1 Low Directory
wholesale Air Force 1 High Shoes Directory
wholesale Nike Air Force 1 Custom Importer
wholesale Air Force 1 Dollar Shoes Importer
wholesale Nike Air Force 1 Clear Sales
wholesale Air Force 1 Carving Shoes Sales
wholesale Timberland Boots High Offers
wholesale Timberland Boots Low Sell
wholesale Timberland Boots Mid Shoes Buyer
wholesale Timberland Boots Womens Buyer
wholesale Adidas Good Year Buy
wholesale Adidas Running Shoes Buy
wholesale Adidas Football Shoes Selection
wholesale Adidas Basketball Shoes Discount
wholesale Adidas 35 Years 35th Anniversary
wholesale Adidas T MAC 3.5 4.5 5 6
wholesale Adidas 35 Years 35th Anniversary
Jordans Wholesale
Cheap Jordans Wholesale
Jordans Retro Wholesale

Air Jordans Wholesale
Nike Shoes Wholesale China
Discount Jordans Price Wholesale
Wholesale Nike Distributor
Wholesale Nike Sneaker
Wholesale Nike Air Force 1
Air Clear Force One Wholesale
Nike Air Force Wholesale
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Wholesale Nike Tennis Shoes
Jordans Retro Wholesale
Wholesale Kid Jordans
Wholesale Nike Dunk
Authentic Jordans Wholesale
Nike Shoes Wholesale China
Wholesale Custom Jordans
Air China Jordans Wholesale
Jordans Retro Wholesale
Nike Air Jordan Wholesale
Nike Golf Wholesale
Wholesale Jordans
Wholesale Nike Shox
Wholesale Basketball Shoes Nike
Air Jordans Price Wholesale
Jordans Kid Wholesale
Wholesale Air Force One And Jordans
Jordans Shoes Wholesale
Wholesale Air Jordans
Air Jordans At Wholesale Price
Wholesale Nike Tennis Shoes
Wholesale NIKE Sneakers from our Nike factory to Nike shop & Nike store,sale and Wholesale all of Nike stock Shoes,we have many type of NIKE Sneakers :Nike discount Shoes,Nike cheap Shoes,Nike stock Shoes (Nike Trainers, Nike Sneakers,Nike Running Shoes,Nike Basketball Shoes,Nike Discount Shoes,Nike Cheap Shoes,footwear, Sports Shoes)Nike Shoes Wholesale sizes include:Nike men's Shoes,Nike women's Shoes,Nike mens Shoes,Nike womens Shoes, Nike men Shoes,Nike women Shoes,Nike kids Shoes, Nike child Shoes.Nike discount Shoes,Nike in www.china-sneakers.com
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65. www 3asneakers.cn sell china nike jordan dunk af1 maxtn max87 max89 shox r4 sneakers gucci prada 4us Hogan Mauri Versace Armani sneaker shoes wholesale bape t-shirt evisu t-shirt polo t-shirt lacotes t-shirt wholsale china cheap

Newsgroup: rec.radio.amateur.space
Date: 2008-04-15 13:06:17 UTC
From: "www.3asneakers.cn wholesale nike gucci prada sneakers" <sneakers13@126.com>
Message-ID: <19d4a2a3-2fab-403e-88f8-4181bdd7ea9f@r9g2000prd.googlegroups.com>
Source record: 995

(www.3asneakers.cn) Discount Prada Sneakers china wholesale good.
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sneaker shoes for cheap.
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wholesaler.
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supplier wholesale jordans from china 2008 prada sneaker for men
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wholesale china lv women sandal shoes wholesale
(www.3asneakers.cn) Nike Basketball Sneakers nike wholesale china
discoun chanel sandals china air jordans versace jeans china wholesale
coogi sweater china wholesale gucci sneakers wholesale
jordan.wholesale cheapest bape shoes,wholesale jordans.
(www.3asneakers.cn) wholesale china lacoste mens turbo low mix gucci
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www.3asneakers.cn discount nike sneakers nike sneakers retro nike air force ones nike dunks sb nike air max

66. WSR-108 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-04-19 15:15:49 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001101c8a230$3af16e50$6801a8c0@familyroom>
Source record: 996
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-108.S1
WSR 108 Part 1 04/17/2008

AMSAT NEWS SERVICE BULLETIN 108.S1 FROM AMSAT HQ
SILVER SPRING, MD, April 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-108.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16/17 crew:
Commander (16): Peggy Whitson
Commander (17): Sergey Volkov RU3DIS
Flight Engineer (16): Yuri Malenchenko RK3DUP
Flight Engineer (17): Oleg Kononenko RN3DX
Flight Engineer (16/17): Garrett Reisman KE5HAE
Participant: So-yeon Yi

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04172008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-108.S2
WSR 108 Part 2 04/17/2008

AMSAT NEWS SERVICE BULLETIN 108.S2 FROM AMSAT HQ
SILVER SPRING, MD, April 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-108.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375

Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]

=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 16/17 crew:
Commander (16): Peggy Whitson
Commander (17): Sergey Volkov RU3DIS
Flight Engineer (16): Yuri Malenchenko RK3DUP
Flight Engineer (17): Oleg Kononenko RN3DX
Flight Engineer (16/17): Garrett Reisman KE5HAE
Participant: So-yeon Yi

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
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NOT translated from Russian and posted.
[04172008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-108.S3
WSR 108 Part 3 04/17/2008

AMSAT NEWS SERVICE BULLETIN 108.S3 FROM AMSAT HQ
SILVER SPRING, MD, April 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-108.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]

=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-108.S4
WSR 108 Part 4 04/17/2008

AMSAT NEWS SERVICE BULLETIN 108.S4 FROM AMSAT HQ
SILVER SPRING, MD, April 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-108.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[03132008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[03132008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[03132008]
=====
Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[03132008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[03132008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[03132008]
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/EX

SB SAT @ AMSAT W8ISS ANS-108.S5
WSR 108 Part 5 04/17/2008

AMSAT NEWS SERVICE BULLETIN 108.S5 FROM AMSAT HQ
SILVER SPRING, MD, April 17, 2008
TO ALL RADIO AMATEURS
BID: $ANS-108.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

67. ANS-111 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-04-20 03:29:54 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301c8a296$c829b5f0$6801a8c0@familyroom>
Source record: 997
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-111

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Store and Dayton Update
* Volunteer Opportunities at the AMSAT Lab
* ESA Call for Cubesat Proposals
* Cubesat Workshop Presentations Available
* European Student Earth Orbiter Update
* AMSAT-Australia and Ozdatgroup Combine Forces
* Satellite Shorts From All Over
* ARISS Status - 14 April 2008

SB SAT @ AMSAT $ANS-111.01
AMSAT Store and Dayton Update

AMSAT News Service Bulletin 111.01
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.01

The AMSAT Store is still down, but we now have a computer that will be the server for the AMSAT Store. We hope to have the store operational as soon as possible. This is currently a volunteer effort, travel and work obligations have slowed down the process of getting the software installed.

AMSAT at the Dayton Hamvention continues to grow. We will have a great Forum on Saturday morning and many new items available at the booth, including a limited number of LVB Tracker boxes. The outdoor demonstration area will be busy all three days plus offer an "Introduction to Amateur Satellite Operation" talk Friday and Saturday afternoons.
Be sure and contact Martha to make your reservations for the joint AMSAT/TAPR Banquet Friday night May 16.
Be sure an join us for the Pizza and Suds gathering on Thursday night.

Additional information can be found on the AMSAT web site,
http://www.amsat.org

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-111.02
Volunteer Opportunities at the AMSAT Lab

AMSAT News Service Bulletin 111.02
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.02

Bob Davis, KF4KSS, AMSAT Lab Manager says the AMSAT Lab in Pocomoke City, Maryland will be open for work days on the following Saturdays:

Sat Apr 26 Open 9-5
Sat May 3 Open 9-5
Sat May 10 Open 9-5
Sat May 17 Closed - Dayton Hamvention

Again, if you're interested in coming and need directions or just want to talk first, send Bob an email KF4KSS@amsat.org or call 443-783-7794.

[ANS thanks Bob, KF4KSS for the above information]

/EX

SB SAT @ AMSAT $ANS-111.03
ESA Call for Cubesat Proposals

AMSAT News Service Bulletin 111.03
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.03

The European Space Agency Education Office has received good response to its call for CubeSat proposals issued last month to universities in ESA member nations and other cooperating states. This to participate in the development of an educational payload for the maiden flight of the new Vega launch rocket currently scheduled for December.

The launch opportunity on the Vega maiden flight is being offered free of charge for up to 6 CubeSats, with an additional 2 backup CubeSats on back up standby. The ESA Education Office says that it recognizes the growing importance of CubeSat projects as a key tool in providing university students with a valuable hands-on practical education across all space engineering disciplines from end-to-end through the complete space project lifecycle.

[ANS thanks Newsline for the above information]

/EX

SB SAT @ AMSAT $ANS-111.04
Cubesat Workshop Presentations Available

AMSAT News Service Bulletin 111.04
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.04

The 5th Annual Cubesat Developers Workshop was held at CalPoly in San Luis Obispo April 9-11 2008.

The workshop featured over forty presentations covering information for new Cubesat developers, innovative avionics, nanosatellites, access to space, ground
station operations, and unique missions.

All of the presentation have been posted on Cubesat.org:
http://cubesat.atl.calpoly.edu/pages/workshops/developers-workshop-2008.php

[ANS thanks Bryan, KF6ZEO, for the above information]

/EX

SB SAT @ AMSAT $ANS-111.05
European Student Earth Orbiter Update

AMSAT News Service Bulletin 111.05
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.05

It has been quite a time since the AMSAT-UK European Student Earth Orbiter (ESEO) team have been able to provide an update on the progress of this satellite payload and just recently ESA have made a major change to the structure of the project organization.

The plan has been to develop a package to provide downlink telemetry at 400 bps
and provide backup tele-command and ranging facilities for the mission management teams. It would, additionally, provide a 435 to 2400 MHz (Mode U/S)
linear transponder using both analogue and DSP based systems.

ESEO is a 110kg student satellite project intended for launch in to low inclination GTO elliptical orbit.

Until the beginning of 2008 the whole ESEO project had been organized directly
by ESA Education Office under the SSETI (Student Space Exploration & Technology

Initiative) banner but they have now decided to adopt new arrangements.

To quote from the ESA website

" To date, both projects (ESEO and ESMO) have proceeded in the early
phases
with a project team consisting entirely of students with project
management and
ad hoc technical support provided by ESA.

It is now intended to implement a new project team structure for these
two
projects in order to enhance the educational benefits given to the
students and
to ensure that the project progresses through major reviews to a
successful
completion on schedule. The new project structure consists of:

* a System Prime responsible for the system engineering and technical
management of the project, the provision of specialist technical
advice to the
students where needed, and supervising the student AIV(Assembly
Integration &
Verification) of the satellite at ESTEC.

* a Network of Universities responsible for the delivery of payload
items,
satellite subsystem items and ground segment systems by their
student teams and
ensuring the adequate supervision/long-term continuity of the
student teams
locally."

What does this mean for AMSAT-UK's involvement in the project?

The launch date is now not expected to be earlier than 2011.

The process for the appointment of the System Prime Contractor is presently
underway and is expected to be completed by later this year.

After the System Prime has been appointed, we will work with them and with
ESA
Education to ensure that the AMSAT sub-system is available when required by
the
programme.

Further information should be available in time for the AMSAT-UK Colloquium
which is being held at the University of Surrey at Guildford from
Friday 25th to
Sunday 28th July,

[ANS thanks AMSAT-UK for the above information]

/EX

SB SAT @ AMSAT $ANS-111.06
AMSAT-Australia and Ozsatgroup Combine Forces

AMSAT News Service Bulletin 111.06
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.06

You may not be aware that AMSAT-Australia and the Ozsatgroup have amalgamated, and that the new combined group has retained the name AMSAT-Australia.

AMSAT-Australia and the Ozsatgroup have been working together for more than two years, and have been discussing such an amalgamation for some time.

The decision to go ahead with the amalgamation was made after Graham Ratcliff, VK5AGR formally tended his resignation as AMSAT-Australia National Coordinator and as AMSAT Coordinator for the Wireless Institute of Australia (WIA) in his annual report to the WIA 2008 Federal Convention on Monday, 7th April 2008.

The role of AMSAT-Australia National Coordinator has been taken on by myself Paul Paradigm, VK2TXT, formally the Coordinator of the Ozsatgroup, and joined by Judy Williams, VK2TJU in the role of AMSAT-Australia Secretary.

I would like to take this opportunity on behalf of both the Amateur Radio operators on the AMSAT-Australia mailing list and the members of the former Ozsatgroup to thank Graham for his outstanding contribution to the Amateur Radio community here in Australia and around the world.

Graham has been in the role of AMSAT-Australia National Coordinator since 1983, and has been the driving force behind AMSAT-Australia since its inception.

Visit our website at http://www.amsat-vk.org for more information.

73's

Paul - VK2TXT
AMSAT-Australia National Coordinator.

[ANS thanks Paul, VK2TXT for the above information]

/EX

SB SAT @ AMSAT $ANS-111.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 111.07
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.07

+ Robert, G8ATE has updated his web site at
http://www.turlington.supanet.com to show an SSTV contact with
GM0ICF via VO52 and Field Hell tests via AO7 mode B, AO16,S O50,
AO51 & VO52.

+ When operating on AO-7 keep an ear open for the informal "DX
Watering Hole" near 145.959 MHz +/-. This is the proposed
frequency for those "footprint stretching", edge-to-edge QSO's
on AO-7.

+ The Federal Communications Commission says it is seeking
applications from engineering school graduates with superior
academic credentials and an interest in communications engineering
for its 2008 Engineer-in-Training Program. Additional information
is available on the FCC's EIT Program page at
http://www.fcc.gov/EITprogram, or by contacting the FCC's Human
Resources Office at area code 202-418-0130. You can also e-mail
for more information to recruit@fcc.gov. (via Amateur Radio Newsline)

+ Reminder! Visit the AMSAT Dayton Web page to learn of the latest
events planned for this year's Hamvention:
http://www.amsat.org/amsat-new/hamvention/2008/Dayton2008.php

[ANS thanks everyone for the above information]

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SB SAT @ AMSAT $ANS-111.08
ARISS Status - 14 April 2008

AMSAT News Service Bulletin 111.08
From AMSAT HQ SILVER SPRING, MD.
April 20, 2008
To All RADIO AMATEURS
BID: $ANS-111.08

1. Upcoming School Contacts

Arnold Palmer Hospital for Children in Orlando, Florida has been scheduled
for
an Amateur Radio on the International Space Station (ARISS) contact on
Monday,
April 21 at 17:48 UTC via the telebridge station W6SRJ in Santa Rosa,
California. The audio for this event will be fed into the EchoLink AMSAT
(101
377) and JK1ZRW (277 208) Conference Room servers and the IRLP Discovery
Reflector 9010.

2. Croatian Contact Successful

On Monday, April 7, students from Osnovna skola Pazin in Croatia
participated in
a successful Amateur Radio on the International Space Station (ARISS)
contact.
Garrett Reisman, KE5HAE, answered 15 questions posed to him by 6 students as

an
audience of 100 people gathered around the radio. Three national television stations, three radio stations and five newspapers covered the
event. The audio
was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) servers and received 16 connections, including 3 link nodes and 1 repeater node, from 11 countries.

3. First Korean Contact Successful

Students attending the Han Gwang Boys & Girls High School in Pyeong Taek City,
Republic of Korea experienced an Amateur Radio on the International Space Station (ARISS) contact on Sunday, April 13. South Korean space visitor Yi So-yeon, HL0ARISS, answered 12 students' questions. Over 500 people attended the
event. Media coverage included 5 television stations and 10 newspapers.

4. ARISS Crew Debrief Held

A debrief session was held between the Amateur Radio on the International Space
Station (ARISS) team and Expedition 16 crew member Leopold Eyharts, KE5FNO/FX0STD, on Monday, April 7. Eyharts provided feedback on ARISS school contacts and operation of the ARISS radio equipment.

5. ARISS Presentation at Dayton Hamvention

The Dayton Hamvention will be held at the Hara Arena Complex in Dayton, Ohio on
May 16 - 18. The American Radio Relay League (ARRL) and the Radio Amateur Satellite Corporation (AMSAT) will both support exhibit booths at the event. Amateur Radio on the International Space Station (ARISS) Chairman Frank Bauer
plans to give a presentation on "A Ham Radio Operator's View of ARISS" at the
AMSAT forum which will cover new ARISS initiatives and a status report on SuitSat-2. The Dayton Hamvention is an internationally attended amateur radio
convention that draws crowds of 25,000 annually.
For more information on Dayton Hamvention 2008, go to:
http://www.hamvention.org/hv2008/forums/forumlist.htm

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

68. Field Day Plans for satcoms

Newsgroup: rec.radio.amateur.space
Date: 2008-04-20 21:51:05 UTC
From: No Spam <no@spam.com>
Message-ID: <1L6dnViJAbNUJ5bVnZ2dnUVZ_oCvnZ2d@comcast.com>
Source record: 998

What are the general ARRL Field Day Plans for satcoms?

This will be our clubs first attempt for points on satcoms. Are there any really good links I should look?

69. WSR-115 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-04-26 01:56:56 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001301c8a740$cbc8f730$6801a8c0@familyroom>
Source record: 999
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-115.S1
WSR 115 Part 1 04/24/2008

AMSAT NEWS SERVICE BULLETIN 115.S1 FROM AMSAT HQ
SILVER SPRING, MD, April 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-115.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-115.S2
WSR 115 Part 2 04/24/2008

AMSAT NEWS SERVICE BULLETIN 115.S2 FROM AMSAT HQ
SILVER SPRING, MD, April 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-115.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launched: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launched: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
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RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
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Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
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NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-115.S3
WSR 115 Part 3 04/24/2008

AMSAT NEWS SERVICE BULLETIN 115.S3 FROM AMSAT HQ
SILVER SPRING, MD, April 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-115.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI

Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio

communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz

437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-115.S4
WSR 115 Part 4 04/24/2008

AMSAT NEWS SERVICE BULLETIN 115.S4 FROM AMSAT HQ
SILVER SPRING, MD, April 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-115.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2007

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
=====
Can X-2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[03132008]

=====
AAUSAT-II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[03132008]
=====
Cute-1.7+APD II
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[03132008]
=====
Compass 1
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[03132008]
=====
Delfi-C3
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz

(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[03132008]
=====
Seeds 2
Catalog number:
Proposed Launch Date: April, 2008

Status: Waiting for Launch

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[03132008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-115.S5
WSR 115 Part 5 04/24/2008

AMSAT NEWS SERVICE BULLETIN 115.S5 FROM AMSAT HQ
SILVER SPRING, MD, April 24, 2008
TO ALL RADIO AMATEURS
BID: $ANS-115.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

70. WSR-121 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-05-03 13:18:35 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c8ad20$29768110$6801a8c0@familyroom>
Source record: 1000
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-121.S1
WSR 121 Part 1 05/01/2008

AMSAT NEWS SERVICE BULLETIN 121.S1 FROM AMSAT HQ
SILVER SPRING, MD, May 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-121.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-121.S2
WSR 121 Part 2 05/01/2008

AMSAT NEWS SERVICE BULLETIN 121.S2 FROM AMSAT HQ
SILVER SPRING, MD, May 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-121.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05012008]
=====
AAUSAT-II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05012008]
=====
Cute-1.7+APD II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05012008]
=====
Compass 1
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05012008]
=====
Delfi-C3
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05012008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====

INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-121.S3
WSR 121 Part 3 05/01/2008

AMSAT NEWS SERVICE BULLETIN 121.S3 FROM AMSAT HQ
SILVER SPRING, MD, May 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-121.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40

Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]

=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW

[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-121.S4
WSR 121 Part 4 05/01/2008

AMSAT NEWS SERVICE BULLETIN 121.S4 FROM AMSAT HQ
SILVER SPRING, MD, May 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-121.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-121.S5
WSR 121 Part 5 05/01/2008

AMSAT NEWS SERVICE BULLETIN 121.S5 FROM AMSAT HQ
SILVER SPRING, MD, May 01, 2008
TO ALL RADIO AMATEURS
BID: $ANS-121.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors

to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the
memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,
G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

71. ANS-124 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-05-04 01:19:24 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002e01c8ad84$dbadfc00$6801a8c0@familyroom>
Source record: 751
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-124

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Seven! Count 'Em Seven! CubeSats Delivered to Orbit
* AO-16 Down and Recovered
* AMSAT Awards
* Satellite Shorts From All Over
* NA1SS Contacts The National Air and Space Museum
* ARISS Status Report For The Week of April 28, 2008

SB SAT @ AMSAT $ANS-124.01
Seven! Count 'Em Seven! CubeSats Delivered to Orbit

AMSAT News Service Bulletin 124.01
>From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.01

The April 28, 2008 launch of 10 satellites aboard the Indian Space Research Organization's (ISRO) Polar Satellite Launch Vehicle-9 (PSLV-9) rocket included 7 amateur radio cubesat, and 3 commercial/ scientific satellites. Watch for late breaking operational messages via the amsat-bb and detailed information on each of the satellite's respective web pages.

The payload included:
Cute-1.7 Tokyo Institute of Technology, Japan
SEEDS Nihon University, Japan
Delfi-C3 Technical University of Delft, Netherlands
AAUSat-II Aalborg University Cubesat, Denmark
COMPASS-1 Fachhochschule Aachen, Germany
CanX-2 University of Toronto, Canada
CanX-6 University of Toronto, Canada
Cartosat 2A Indian Space Research Organization (non-amateur radio)

IMS 1 Indian Space Research Organization (non-amateur radio)
Rubin 8-AIS OHB-System, Germany (non-amateur radio)

An excellent source of information for each of these satellites can be found at: http://space.skyrocket.de/index_frame.htm (scroll down to the April 28 data). Also see Ralph W0RPK Cubesat Webpage at: http://showcase.netins.net/web/wallio/CubeSat.htm.

Wouter, PE4WJ provided the following status of Delfi-C3:

+ Telemetry indicates that all solar panels and antennas have deployed properly and indicates nominal values for all housekeeping values.

+ Payload data has started to stream in, enabling the team to generate IV curves of the Thin Film Solar Cell experiment. (RASCAL users can view the IV curves by clicking Options-->show IV curves.)

+ The spacecraft is operating in science mode, we have had one orbit in emergency mode, which was most probably due to a databus issue.

+ Amateur radio operators have sent over 40000 frames of data using RASCAL, the Delfi-C3 telemetry capture software.

+ The spacecraft has decided to consistently use the backup radio on 145.930 MHz for its telemetry downlink. The primary radio on 145.870 MHz may be switched on by the groundstation so monitor both frequencies.

+ We have successfully switched the spacecraft to its primary radio on 145.870MHz temporarily, after this switch, the satellite came back on the 145.930MHz downlink. Telemetry indicated that the primary radio on

145.870MHz is healthy and working fine so that is good news. Note that

the satellite will normally transmit on 145.930MHz for the time being,

unless we command her to go to 145.870MHz.

+ The team is working on the issue with the downlink TX switching off later into the sunlit side of the orbit, which is the reason why Delfi-C3 has not been heard on some passes. It may switch off when the computer does not receive data but the transmitter itself is OK.

Hiroki Ashida at the Tokyo Institute of Technology reported on the status of their Cute-1.7 + APD II satellite. The team is monitoring an anomaly where the telemetry received via FM packet shows very low battery voltage while the CW telemetry reports a nominal reading. If this low voltage condition exists the satellite may be in danger. Further testing in the lab has duplicated this anomaly and the team has confirmed that the batteries are in good shape at this time.

The Cute-1.7 team requests telemetry information from radio amateurs around the world. The satellite transmits its beacon at 437.275 MHz using CW Morse Code. The telemetry data in the beacon includes the battery voltage. Details are explained on their web-page:

http://lss.mes.titech.ac.jp/ssp/cute1.7/cwtelemetry_e.html.
The packet telemetry is only enabled when the satellite is over
Japan.

Masahiko Yamazaki,JQ1YGV at Nihon University reported that the
SEEDS satellite is currently overcharging so the team has enabled
the FM mode to transmit the DigiTalker and SSTV pictures on
437.485 MHz. See: http://cubesat.aero.cst.nihon-u.ac.jp/index.html

The CanX team reported their spacecraft were doing well, "So
far healthy telemetry from both. At some point CanX-2 was
generating some 1.8 A and CanX-6 was at 1.4 A. Good temperature
on both. CanX-2 propulsion system is holding pressure. We are
continuing with commissioning. Both satellites are currently
transmitting on the Space Research 2.2 GHz downlink. The UHF
transmitter on CanX-2 would only be active over the ground station
in Toronto, Canada.

Signal reports of the cubesats have been received from around
the world. Here is a brief example captured from the amsat-bb ...

Just heard great signals of Delfic3 on 145.930. - Rob PE1ITR

Received good signals from DelfiC3 tonight in IO91TK 15km west of
London. Nice to hear another satellite on 2m. Just love that low path
loss! Well done Delft University of Technology. - David G0MRF

Very strong signal from Delfi telemetry transmitter. Good work and
congratulations to the Delfi team! - Jean-Pierre VE2AHD

Delfi-C3 received in Belgium during the third pass. 194 packets
received, decoded with RASCAL and sent to the command station.
Signals were loud and decodable during 90 % of the pass.
Congratulations to the team. Long life to Delfi-C3. - Claude ON5QI

Just had my one shot for the morning and got an excellent signal,
with AOS and LOS within seconds of predicted. The RASCAL program is
slick, and nicely accessed the servers to upload the data.
- Alan WA4SCA

Both the CUTE1.7 (437.275) and the SEEDS (437.485) CW signals were
monitored in Brno JN85HF. - Mirek OK2AQK

Using the latest kepler sets, automatic doppler correction, TS2000X,
2x8 elements beam with no pre-amp picked up the CUTE-1.7 signal
beautifully all the way from AOS to LOS ... less than one degree
elevation from a 100mW transmitter in space. Fantastic satellite!
- Henk, PA3GUO

I copied SEEDS this evening at 44 degrees el. in Honolulu. 73 to all
and congratulations to the Nihon University Cubesat Team!
- Robert NH7WN

I have updated my web site to include SEEDS SSTV.
See http://www.turlington.supanet.com - Robert G8ATE

Heard SEEDS digi-talker and SSTV on 2008-05-03. - Edward BX1AD

I have just copied Cute-1.7 over here in the UK (Wales - IO81EM)
using a Kenwood THD-7 and just its helical antenna. - Ken GW1FKY

The members of AMSAT-India and the Indian Ham fraternity congratulate
ISRO for the successful 10 pack satellite launch via the PSLV C9 his
morning. We would also congratulate the DELFI team, CUTE team and
the SEEDS team for their amateur radio satellites which are now placed
in orbit. VU2POP Secy AMSAT-India

[ANS thanks all of the Cubesat Teams for the above information]

/EX

SB SAT @ AMSAT $ANS-124.02
AO-16 Down and Recovered

AMSAT News Service Bulletin 124.02
>From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.02

The AO-16 Command Team investigated reports this week that the
satellite had gone silent. The team is aware of the anomaly and
there is no cause for alarm. Control Operator, Mark, N8MH said,
"Over the last month AO-16 has gone from full illumination (0
minutes of eclipse) to over 250 minutes of eclipse. Since the
bird has no fancy housekeeping code running, a reasonable explan-
ation is that the battery voltage dropped low enough to put the
bird into a protected (and silent) mode."

Mark was able to command AO-16 ON during a pass over the USA. The
satellite resumed operating in its 1200 BPSK digital MBL telemetry
mode on the 437.026 MHz transmitter. After further testing, Mark
reported, "A quick look at the telemetry suggests that AO-16 is
doing fine. The current transmitter output power is about 1.5 Watts.
AO-16 is again configured for voice mode and is open for normal
operation."

AO-16 has occasionally turned off on subsequent long eclipse periods.
Mark explained, "At about 2043 utc on 2 May 2008 I commanded AO-16 back
ON again. Apparently the increasing eclipse periods require another
reduction in the transmitter output power. AO-16 is now back and
operational in voice repeater mode, with a slightly reduced output.
It is reporting around 1.2 watts output, so it was still quite loud."

The increasing eclipse periods are too long to sustain operations at
the previous transmitter output setting. The sustainable power budget
is being managed empirically by Mark, with "best guess" settings using
the satellite's telemetry for feedback on its performance.

When AO-16 is silent the batteries continue to charge with minimal current being drawn to sustain the vital functions of the satellite (CPU). Thus, it is in a safe resting state at the moment, and the batteries continue to charge when in sunlight. Thanks to a brilliance in design, construction, and coding, the bird is hardy and excellent at self-preservation.

AO-16 Uplink: 145.920 MHz FM
AO-16 Downlink: 437.0260 MHz DSB (LSB and USB).

After recovery of AO-16 on May 3, the current plans are to leave the satellite in the digital MBL mode for a few days so as to collect telemetry for review. You can hear the satellite "humming" in its 1200 BPSK mode.

Interested listeners of AO-16 can help by copying any telemetry captured via the Warbler sound card demodulator. This software is from the same folks that brought you the RASCAL software for Delfi-C3. A file called "warbler.kss" is produced when packets are decoded. These "warbler.kss" files can be sent to N8MH for analysis. Please include your QTH (gridsquare) and the time the telemetry was captured.

Telemetry from AO-16 in the MBL mode is random and infrequent. It's possible to hear no telemetry during an entire pass. Please do not transmit to AO-16 until further notice.

Users of AO-16 are encouraged to report any aberrant operations by either posting to the AMSAT-BB or by emailing the command team at n8mh AT amsat.org "Aberrant operations" might include the following: complete loss of signal from the spacecraft or significant change in the transmitter frequency.

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-124.03
AMSAT Awards

AMSAT News Service Bulletin 124.03
>From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.03

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University of Florida, Gator Amateur Radio Club, W4DFU

The following have earned the AMSAT Sattelite Communications Achievement Award:
Clyde de Rossett, KI4CKT #462

University of Florida, Gator Amateur Radio Club, W4DFU #463

The following have earned the AMSAT South Africa Satellite
Communications Achievement Award
Dimitrios Pallis, SW1JGW #US120
University of Florida, Gator Amateur Radio Club, W4DFU #US121

To see all the awards visit http://www.amsat.org.

[ANS thanks Bruce, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-124.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 124.04
>From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.04

+ Martha at AMSAT HQ reminds you that you MUST pay for your banquet ticket before May 12th. Giving her your name only will not hold a ticket. You need to call the AMSAT office at 301-589-6062.

+ Allen, N5AFV operated two passes of AO-51 and one pass of SO-50 from the Alamo in San Antonio, Texas on Tuesday and Wednesday (April 22 & 23). Allen says he has a special QSL card made up for the operation. QSL via home address.

+ EW/G0SFJ successfully contacted G7HIA on 20th April via AO-51, but under difficult conditions when operating from Minsk. Any SWL cards or reports gratefully received by email or QTHR, and will be acknowledged!

+ The AO-27 Satellite Scheduler program which has been available from http://www.cs.rit.edu/~cjh9783/programs/satsched.php is now also available from http://home.earthlink.net/~ka3hsw/ao27/ as well.

+ The W3HZU Beacons located on Grid FM19qv on 2.4GHZ and 1.2GHZ have been temporarily taken off the air in preparation to add a third beacon on 5.76GHZ. A message on the amsat-bb will advise when the beacons are back on the air. (via Charlie, K3VDB)

+ The Houston AMSAT Net Podcast has now been picked up by iTunes. You can do a search on iTunes for "Houston AMSAT Net", "KK5DO", or "Bruce Paige" and will be offered the opportunity to subscribe to the Podcast.

+ Google Earth now offers tools to Visualize the Ionosphere in 4D. See:

http://science.nasa.gov/headlines/y2008/30apr_4dionosphere.htm?list958901

http://terra1.spacenvironment.net/%7eionops/es4dintro.html
You will be able to use Google Earth ï¿½ applications such as:
o Radio Availability
o Total Electron Content
o Maximum Useable Frequency
o foF2
o Past 24 hours TEC movie
o Past 24 hours MUF movie

+ This past weekend, K3IO, W2GPS, WA4SXM attended the premier of AMSAT.ORG in Grand-Am Racing at the Virginia International Raceway. Jim Jaeger (K8RQ) arranged for the AMSAT logo to appear prominently on the yellow Doran Racing Kodak #77 Dallara/Ford car driven by Brad Jaeger (Jim's son) and Memo Gidley. The Doran Racing web site has a gallery of photos featuring their #77 Kodak & #47 BSi cars available for viewing at http://www.doranracing.com/08_vir/photo.htm. Look for the AMSAT.ORG logo on the yellow car!

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NA1SS Contacts The National Air and Space Museum

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This ARISS contact is part of the space day events celebrating NASA's 50th anniversary. This event is made possible by the generous support of Lockheed Martin.

The ARISS/AMSAT exhibit wass in the new "America by Air" gallery, Gallery 102 on the first floor, just past the Museum Store before you reach the Flight Simulators. The display featured ARISS and AMSAT hardware. Mr. Kemp and students from his Systems Engineering Class at Thomas Jefferson High School for Science and Technology explained their progress on their Cubesat project.

[ANS thanks Kenneth, N5VHO and Perry, W3PK for the above information]

/EX

SB SAT @ AMSAT $ANS-124.06
ARISS Status Report For The Week of April 28, 2008

AMSAT News Service Bulletin 124.06
>From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.06

1. Upcoming School Contacts

An ARISS contact has been scheduled for Armada Area Schools in Armada, Michigan on Friday, May 9 at 13:38 UTC. Students will research space exploration, the effects of space on the human body, and technology used for space travel. Middle school students will write essays and high school students will create Power Point presentations. The Detroit News, Detroit Free Press, Armada Times and Macomb Daily newspapers will provide newspaper coverage. The local cable channel will tape and place the contact on the local channels and Channels 2, 4, 7 will also be contacted to provide local Metropolitan Detroit News coverage.

2. Arnold Palmer Hospital Contact Successful

On Monday, April 21, patients at the Arnold Palmer Hospital for Children in Orlando, Florida participated in an ARISS contact with Garrett Reisman, KE5HAE, via the telebridge station W6SRJ in California. Reisman answered the 20 questions which had been planned for him and continued answering another three posed by the seven children. Approximately 30 people were in attendance. Orlando television stations Central Florida News 13 and WESH Channel 2 both reported on the event.

3. ARISS - Russian School Contact

The Peter Klimuk School ARISS contact planned for Wednesday, April 23 was unsuccessful due to technical difficulties. The ARISS team is looking into the problem.

4. ESA Astronaut Visits ARISS Schools

ESA astronaut Paolo Nespoli, IZï¿½JPA, gave two presentations to Italian schools which had participated in ARISS contacts in October 2007. On Wednesday, April 23, Nespoli spoke to 565 students from Galileo Galilei High School of Civitavecchia, Guglielmo Marconi High School of Civitavecchia and Giosuï¿½ Carducci Secondary School in Santa Marinella. On April 24, he spoke with 400 students from Aula Magna of the Faculty of Engineering of the University of L'Aquila. ARISS member Francesco De Paolis, IKï¿½WGF, gave a talk on the ARISS program and Nespoli gave a presentation on the Esperia mission which also highlighted the ARISS contacts. Television stations and news-

papers covered the events and photographs have been posted to the ARISS-Europe Web site. See: http://www.ariss-eu.org/2008_04_27.htm

5. Astronaut Training Status

An ARISS training session is planned for astronaut Bob Thirsk, VA3CSA, with Cedarview Middle School in Ottawa, Ontario, Canada. The training session, which is a terrestrial-based amateur radio contact using ARISS-equivalent equipment, is planned for Thursday, May 1 at approximately 19:30 UTC.

Expedition 19 back-up crew member Chris Hadfield, KC5RNJ/VA3OOG, will attend an ARISS operations training session on Friday, May 2.

[ANS thanks Carol, KB3LKI for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

72. ANS-124 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-05-06 15:00:09 UTC
From: JoAnne Maenpaa <k9jkm@amsat.org>
Message-ID: <LPudncNsbZ3q773VnZ2dnUVZ_uOdnZ2d@comcast.com>
Source record: 752

AMSAT NEWS SERVICE
ANS-124

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* Seven! Count 'Em Seven! CubeSats Delivered to Orbit
* AO-16 Down and Recovered
* AMSAT Awards
* Satellite Shorts From All Over
* NA1SS Contacts The National Air and Space Museum
* ARISS Status Report For The Week of April 28, 2008

SB SAT @ AMSAT $ANS-124.01
Seven! Count 'Em Seven! CubeSats Delivered to Orbit

AMSAT News Service Bulletin 124.01
From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.01

The April 28, 2008 launch of 10 satellites aboard the Indian Space Research Organization's (ISRO) Polar Satellite Launch Vehicle-9 (PSLV-9) rocket included 7 amateur radio cubesat, and 3 commercial/ scientific satellites. Watch for late breaking operational messages via the amsat-bb and detailed information on each of the satellite's respective web pages.

The payload included:
Cute-1.7 Tokyo Institute of Technology, Japan
SEEDS Nihon University, Japan
Delfi-C3 Technical University of Delft, Netherlands
AAUSat-II Aalborg University Cubesat, Denmark
COMPASS-1 Fachhochschule Aachen, Germany
CanX-2 University of Toronto, Canada
CanX-6 University of Toronto, Canada
Cartosat 2A Indian Space Research Organization (non-amateur radio)
IMS 1 Indian Space Research Organization (non-amateur radio)

Rubin 8-AIS OHB-System, Germany (non-amateur radio)

An excellent source of information for each of these satellites can be found at: http://space.skyrocket.de/index_frame.htm (scroll down to the April 28 data). Also see Ralph W0RPK Cubesat Webpage at: http://showcase.netins.net/web/wallio/CubeSat.htm.

Wouter, PE4WJ provided the following status of Delfi-C3:

+ Telemetry indicates that all solar panels and antennas have deployed properly and indicates nominal values for all housekeeping values.

+ Payload data has started to stream in, enabling the team to generate IV curves of the Thin Film Solar Cell experiment. (RASCAL users can view the IV curves by clicking Options-->show IV curves.)

+ The spacecraft is operating in science mode, we have had one orbit in emergency mode, which was most probably due to a databus issue.

+ Amateur radio operators have sent over 40000 frames of data using RASCAL, the Delfi-C3 telemetry capture software.

+ The spacecraft has decided to consistently use the backup radio on 145.930 MHz for its telemetry downlink. The primary radio on 145.870 MHz may be switched on by the groundstation so monitor both frequencies.

+ We have successfully switched the spacecraft to its primary radio on 145.870MHz temporarily, after this switch, the satellite came back on the 145.930MHz downlink. Telemetry indicated that the primary radio on 145.870MHz is healthy and working fine so that is good news. Note that the satellite will normally transmit on 145.930MHz for the time being, unless we command her to go to 145.870MHz.

+ The team is working on the issue with the downlink TX switching off later into the sunlit side of the orbit, which is the reason why Delfi-C3 has not been heard on some passes. It may switch off when the computer does not receive data but the transmitter itself is OK.

Hiroki Ashida at the Tokyo Institute of Technology reported on the status of their Cute-1.7 + APD II satellite. The team is monitoring an anomaly where the telemetry received via FM packet shows very low battery voltage while the CW telemetry reports a nominal reading. If this low voltage condition exists the satellite may be in danger. Further testing in the lab has duplicated this anomaly and the team has confirmed that the batteries are in good shape at this time.

The Cute-1.7 team requests telemetry information from radio amateurs around the world. The satellite transmits its beacon at 437.275 MHz using CW Morse Code. The telemetry data in the beacon includes the battery voltage. Details are explained on their web-page: http://lss.mes.titech.ac.jp/ssp/cute1.7/cwtelemetry_e.html.
The packet telemetry is only enabled when the satellite is over Japan.

Masahiko Yamazaki,JQ1YGV at Nihon University reported that the SEEDS satellite is currently overcharging so the team has enabled the FM mode to transmit the DigiTalker and SSTV pictures on 437.485 MHz. See: http://cubesat.aero.cst.nihon-u.ac.jp/index.html

The CanX team reported their spacecraft were doing well, "So far healthy telemetry from both. At some point CanX-2 was generating some 1.8 A and CanX-6 was at 1.4 A. Good temperature on both. CanX-2 propulsion system is holding pressure. We are continuing with commissioning. Both satellites are currently transmitting on the Space Research 2.2 GHz downlink. The UHF transmitter on CanX-2 would only be active over the ground station in Toronto, Canada.

Signal reports of the cubesats have been received from around the world. Here is a brief example captured from the amsat-bb ...

Just heard great signals of Delfic3 on 145.930. - Rob PE1ITR

Received good signals from DelfiC3 tonight in IO91TK 15km west of London. Nice to hear another satellite on 2m. Just love that low path loss! Well done Delft University of Technology. - David G0MRF

Very strong signal from Delfi telemetry transmitter. Good work and congratulations to the Delfi team! - Jean-Pierre VE2AHD

Delfi-C3 received in Belgium during the third pass. 194 packets received, decoded with RASCAL and sent to the command station. Signals were loud and decodable during 90 % of the pass. Congratulations to the team. Long life to Delfi-C3. - Claude ON5QI

Just had my one shot for the morning and got an excellent signal, with AOS and LOS within seconds of predicted. The RASCAL program is slick, and nicely accessed the servers to upload the data.
- Alan WA4SCA

Both the CUTE1.7 (437.275) and the SEEDS (437.485) CW signals were monitored in Brno JN85HF. - Mirek OK2AQK

Using the latest kepler sets, automatic doppler correction, TS2000X, 2x8 elements beam with no pre-amp picked up the CUTE-1.7 signal beautifully all the way from AOS to LOS ... less than one degree elevation from a 100mW transmitter in space. Fantastic satellite!
- Henk, PA3GUO

I copied SEEDS this evening at 44 degrees el. in Honolulu. 73 to all and congratulations to the Nihon University Cubesat Team!
- Robert NH7WN

I have updated my web site to include SEEDS SSTV.
See http://www.turlington.supanet.com - Robert G8ATE

Heard SEEDS digi-talker and SSTV on 2008-05-03. - Edward BX1AD

I have just copied Cute-1.7 over here in the UK (Wales - IO81EM)
using a Kenwood THD-7 and just its helical antenna. - Ken GW1FKY

The members of AMSAT-India and the Indian Ham fraternity congratulate
ISRO for the successful 10 pack satellite launch via the PSLV C9 his
morning. We would also congratulate the DELFI team, CUTE team and
the SEEDS team for their amateur radio satellites which are now placed
in orbit. VU2POP Secy AMSAT-India

[ANS thanks all of the Cubesat Teams for the above information]

/EX

SB SAT @ AMSAT $ANS-124.02
AO-16 Down and Recovered

AMSAT News Service Bulletin 124.02
From AMSAT HQ SILVER SPRING, MD.
May 4, 2008
To All RADIO AMATEURS
BID: $ANS-124.02

The AO-16 Command Team investigated reports this week that the
satellite had gone silent. The team is aware of the anomaly and
there is no cause for alarm. Control Operator, Mark, N8MH said,
"Over the last month AO-16 has gone from full illumination (0
minutes of eclipse) to over 250 minutes of eclipse. Since the
bird has no fancy housekeeping code running, a reasonable explan-
ation is that the battery voltage dropped low enough to put the
bird into a protected (and silent) mode."

Mark was able to command AO-16 ON during a pass over the USA. The
satellite resumed operating in its 1200 BPSK digital MBL telemetry
mode on the 437.026 MHz transmitter. After further testing, Mark
reported, "A quick look at the telemetry suggests that AO-16 is
doing fine. The current transmitter output power is about 1.5 Watts.
AO-16 is again configured for voice mode and is open for normal
operation."

AO-16 has occasionally turned off on subsequent long eclipse periods.
Mark explained, "At about 2043 utc on 2 May 2008 I commanded AO-16 back
ON again. Apparently the increasing eclipse periods require another
reduction in the transmitter output power. AO-16 is now back and
operational in voice repeater mode, with a slightly reduced output.
It is reporting around 1.2 watts output, so it was still quite loud."

The increasing eclipse periods are too long to sustain operations at
the previous transmitter output setting. The sustainable power budget
is being managed empirically by Mark, with "best guess" settings using
the satellite's telemetry for feedback on its performance.

When AO-16 is silent the batteries continue to charge with minimal
current being drawn to sustain the vital functions of the satellite
(CPU). Thus, it is in a safe resting state at the moment, and the

batteries continue to charge when in sunlight. Thanks to a brilliance in design, construction, and coding, the bird is hardy and excellent at self-preservation.

AO-16 Uplink: 145.920 MHz FM
AO-16 Downlink: 437.0260 MHz DSB (LSB and USB).

After recovery of AO-16 on May 3, the current plans are to leave the satellite in the digital MBL mode for a few days so as to collect telemetry for review. You can hear the satellite "humming" in its 1200 BPSK mode.

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http://science.nasa.gov/headlines/y2008/30apr_4dionosphere.htm?list958901
http://terra1.spacenvironment.net/%7eionops/es4dintro.html
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o Radio Availability
o Total Electron Content
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o foF2
o Past 24 hours TEC movie
o Past 24 hours MUF movie

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73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

73. QST-VIEW

Newsgroup: rec.radio.amateur.space
Date: 2008-05-06 15:40:00 UTC
From: bigter1 <tsm@electrosys.com>
Message-ID: <2MidneuzV6pF5r3VnZ2dnUVZ_tSknZ2d@birchtelecom>
Source record: 753

For those who are interested in the ARRL QST-VIEW publications that are no longer stocked by ARRL, be advised that all dates are IN STOCK by Radio Era Archives, the developer/producer of QST-VIEW. A direct link for ordering is below:
http://www.radioera.com/qst-view.asp

This is an informational notice since ARRL has many dates that are no longer available.

74. Radio Meteor Obs. Bull. April 2008 Lyrids

Newsgroup: rec.radio.amateur.space
Date: 2008-05-08 19:28:15 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <h1l624tl7cppfa27tegoetutsgd6ud3tm5@4ax.com>
Source record: 754
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 177 of April 2008 (77 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0804.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

75. WSR-128 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-05-09 01:09:06 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <20080509010850.D7B6D29409@mail1.panix.com>
Source record: 755
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-128.S1
WSR 128 Part 1 05/08/2008

AMSAT NEWS SERVICE BULLETIN 128.S1 FROM AMSAT HQ
SILVER SPRING, MD, May 08, 2008
TO ALL RADIO AMATEURS
BID: $ANS-128.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[05082008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-128.S2
WSR 128 Part 2 05/08/2008

AMSAT NEWS SERVICE BULLETIN 128.S2 FROM AMSAT HQ
SILVER SPRING, MD, May 08, 2008
TO ALL RADIO AMATEURS
BID: $ANS-128.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Mode(s): FM Repeater - V/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[04032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05012008]
=====
AAUSAT-II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05012008]
=====
Cute-1.7+APD II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05012008]
=====
Compass 1
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05012008]
=====
Delfi-C3
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05012008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====

INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-128.S3
WSR 128 Part 3 05/08/2008

AMSAT NEWS SERVICE BULLETIN 128.S3 FROM AMSAT HQ
SILVER SPRING, MD, May 08, 2008
TO ALL RADIO AMATEURS
BID: $ANS-128.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40

Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]

=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW

[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-128.S4
WSR 128 Part 4 05/08/2008

AMSAT NEWS SERVICE BULLETIN 128.S4 FROM AMSAT HQ
SILVER SPRING, MD, May 08, 2008
TO ALL RADIO AMATEURS
BID: $ANS-128.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-128.S5
WSR 128 Part 5 05/08/2008

AMSAT NEWS SERVICE BULLETIN 128.S5 FROM AMSAT HQ
SILVER SPRING, MD, May 08, 2008
TO ALL RADIO AMATEURS
BID: $ANS-128.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors

to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the
memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,
G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

76. Paul busted by Operation Sudden Fall

Newsgroup: rec.radio.amateur.space
Date: 2008-05-10 21:37:19 UTC
From: Allen.Sendra@usdoj.gov
Message-ID: <AXcaUZ7IYewm.DyhsfJ9251vz4@news.usdoj.gov>
Source record: 756

```
Law enforcement is now intercepting text messages,
as proven by Operation Sudden Fall in San Diego.

http://www.usdoj.gov/dea/pubs/states/newsrel/sd050608.html
http://www.signonsandiego.com/news/education/20080506-1338-bn06sdsu2.html

Don't let your personal SMS/text messages fall into
the wrong hands. Encrypt your messages with one
of these:

http://www.Xecure.net
http://www.CryptoSMS.org
http://www.CryptoSMS.com
http://www.CryptoGraf.com
http://www.Cop2p.com/encrypted_sms.html
http://www.FortressMail.net/fortress_sms.htm
http://groups.google.com/group/sms-salama/web/introduction
http://home.xtra.co.nz/hosts/sveltdesign/mindwarrior/pages.html?MobeCode

Be Safe, Be Encrypted, Fuck the Police!!

--
Will you fail out of the coalition, if Latif more lands the conviction?
```

77. ANS-132 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-05-12 20:52:56 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <20080512205243.EEEFD34827@mail2.panix.com>
Source record: 757
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-132

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Engineering Teams and Raffle at Dayton
* Dayton AMSAT/TAPR Banquet ticket sales close 12 May
* AMSAT Board of Directors Nominations
* Ronald A. Parise, WA4SIR, SK
* 5th Annual Cubesat Summer Workshop
* ARISS Status - 5 May 2008

SB SAT @ AMSAT $ANS-132.01
AMSAT Engineering Teams and Raffle at Dayton

AMSAT News Service Bulletin 132.01
From AMSAT HQ SILVER SPRING, MD.
May 11, 2008
To All RADIO AMATEURS
BID: $ANS-132.01

Representatives from the AMSAT Engineering teams will be available to talk with
you about their projects at the 2008 Dayton
Hamvention. All of the teams are looking for
dedicated individuals that would like to
participate. The AMSAT Engineering area will occupy booths
444-445 adjacent to the other AMSAT booths 446-449.

We have the entire row this year.

Friday
ACP
Michelle, W5NYV 0900 - 1200 ACP Ground segment
Matt, N2MJI 1300-1500, 1600-1700 ACP satellite segment

SuitSat-2
Tom, K3IO 1000-1100, 1200-1300, 1400-1500
Lou, W5DID 1100-1200, 1300-1400, 1600-1700

P3E & Phase 4
Rick, W2GPS 1100-1200, 1300-1400, 1500-1600

Eagle
Barry, WD4ASW 1400-1500, 1700-1800

Digital encoding
Phil, KA9Q 1000-1200, 1500-1600

Saturday

ACP
Michelle, W5NYV 1300 - 1600 ACP Ground segment
Matt, N2MJI 1300-1500, 1600-1700 ACP satellite segment

SuitSat-2
Tom, K3IO 1200-1300, 1600-1700
Lou, W5DID 1300-1600

P3E & Phase 4
Rick, W2GPS 1300-1400, 1500-1600

Eagle
Barry, WD4ASW 1200-1300, 1400-1500

Digital encoding
Phil, KA9Q 1200-1300, 1400-1500

Sunday

SuitSat-2
Tom, K3IO 0900-1000
Lou, W5DID 1000-1100

Eagle
Barry, WD4ASW 1000-1200

P3E & Phase 4
Rick, W2GPS 1000-1100

Eagle
Barry, WD4ASW 1000-1200

==========

Raffle for complete LVB Tracker Box

We will have a raffle for a complete LVB Tracker Box, donated by David Bern,
W2LNX. The tickets will be $5 apiece. The
drawing will be held Saturday afternoon at
1700. Come by the AMSAT booth and enter the raffle.

We will also have a limited number of complete Tracker boxes available at
the
booth, first come first serve.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-132.02
Dayton AMSAT/TAPR Banquet ticket sales close 12 May

AMSAT News Service Bulletin 132.02
From AMSAT HQ SILVER SPRING, MD.
May 11, 2008
To All RADIO AMATEURS
BID: $ANS-132.02

AMSAT/TAPR Banquet ticket sales close at noon Monday, 12 May 2008

Tickets for the joint AMSAT/TAPR Banquet on Friday night, 16 May in Dayton
will
close at noon EDT Monday, 12 May 2008. You can
call Martha at the AMSAT office (888) 322-6728 (in
the US) or from all other locations call (301)
589-6062 to purchase your ticket. Or you can
send an email to martha@amsat.org with you
telephone number and she will call you to take the
credit card information. Don't miss out on this popular event.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-132.03
AMSAT Board of Directors Nominations

AMSAT News Service Bulletin 132.03
From AMSAT HQ SILVER SPRING, MD.
May 11, 2008
To All RADIO AMATEURS
BID: $ANS-132.03

It is time to submit nominations for the upcoming open seats on
the AMSAT-NA Board of Directors. A nomination requires either
one Member Society or 5 current individual members to nominate
an AMSAT member for the position. A director serves for a period
of two years. Three director's terms expire this year: Tom
Clark K3IO, Lou McFadin W5DID, Bob McGwier N4HY. Nominations
must be in writing and mailed to: AMSAT, 850 Sligo Ave #600,
Silver Spring, MD 20910. They can arrive no later than June 12,
2008.

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-132.04
Ronald A. Parise, WA4SIR, SK

AMSAT News Service Bulletin 132.04
From AMSAT HQ SILVER SPRING, MD.
May 11, 2008
To All RADIO AMATEURS
BID: $ANS-132.04

It is with a heavy heart that I announce the passing of a great friend, colleague and fellow ham radio operator. Dr. Ronald A. Parise, WA4SIR, left this Earth today, Friday May 9, 2008 after a very long and courageous battle with cancer.

Ron Parise was--and continues to be--an inspiration to countless students, ham radio operators, and friends the world over. His accomplishments were many, including: space explorer, pioneer, astrophysicist, pilot, ham radio operator, avionics and software expert, inspirational speaker and motivator, student satellite mentor, husband, father, and friend. While he certainly did some truly extraordinary things in his lifetime, Ron Parise is best known and cherished for keeping family and friends first.and for this, we will miss him most.

Ron flew as a payload specialist on two Space Shuttle missions: STS-35 on the Space Shuttle Columbia in December 1990 and STS-67 on the Space Shuttle Endeavour in March 1995. These two missions, called ASTRO-1 & 2 respectively, carried out Ultraviolet and X-ray astronomy observations. He logged over 614 hours and 10.6 million miles in space. Ron and his crew members on ASTRO-1 became the first astronomers to operate a telescope from space, making hundreds of observations during the mission. His personal contributions to these two missions have provided scientists with an unprecedented view of our universe, expanding our understanding of the birth, life and death of stars and galaxies.

Ron was also the ultimate ham radio operator-in space and on the ground. First licensed when he was 11, Ron kept the amateur radio hobby at the forefront of everything he did-including his operations from space. During his two Space Shuttle flights, he talked to hundreds of hams on the ground, giving new meaning to the phrase the "ultimate DX-pedition". He was instrumental in guiding the development of a simple ham radio system that could be used in multiple configurations on the Space Shuttle. As a result, his first flight on STS-35 ushered in the "frequent flyer" era of the Shuttle Amateur Radio Experiment (SAREX) payload. He was the first ham in space to operate packet radio. And his flight pioneered the telebridge ground station concept to enable more schools to talk to Shuttle crew members despite time and orbit constraints. In his two shuttle flights, he inspired countless students to seek technical careers and he created memories at the schools and communities that will never be forgotten.

Ron's love for the amateur radio hobby and his love of inspiring students continued well beyond his two Shuttle flights. During the formation of the Amateur Radio on the International Space Station (ARISS) program, Ron was a tremendous resource to the newly forming international team. I know of many

instances where Ron's wisdom and sage advice was instrumental in helping our international team resolve issues when we reached critical technical or political roadblocks. And he was a key volunteer in the development of the ham radio hardware systems that are now on-board ISS. The ARISS team is deeply indebted to WA4SIR for his leadership, technical advice and tremendous vision.

Ron worked hand-in-hand with the students at the Naval Academy and Embry-Riddle Aeronautical University on the development of their student satellites. He helped develop Radio Jove-a student educational project to listen to the radio signals emanating from Jupiter. And he spoke at numerous schools over the years, inspiring them to pursue careers in science, math and technology.

I feel blessed to have had Ron as a friend, colleague, ham buddy and mentor. He gave so much, cheerfully, to our collective hobby and was always there with the right answer no matter the topic. I will miss him dearly.

In an effort to continue Ron's tireless work to inspire the next generation, the Parise family has set up a scholarship fund in Ron's honor. The scholarship is for students pursuing technical degrees at Youngtown State University, where Ron received his Bachelors of Science degree. In lieu of flowers, those interested are welcome to send donations to the Dr. Ronald A. Parise Scholarship Fund, Youngstown State University, One University Plaza, Youngstown, Ohio 44555.

On behalf of AMSAT and the ARISS International team, I would like to extend our collective condolences to the Parise family and to all Ron's friends. Our thoughts and prayers are with you.

And to Ron Parise, WA4SIR SK: Our sincerest 73's and 88's.may your exploration spirit live on in us all!!

[ANS thanks Frank, KA3HDO, for the above information]

/EX

SB SAT @ AMSAT $ANS-132.05
5th Annual Cubesat Summer Workshop

AMSAT News Service Bulletin 132.05
From AMSAT HQ SILVER SPRING, MD.
May 11, 2008
To All RADIO AMATEURS
BID: $ANS-132.05

The 5th annual Cubesat summer workshop for 2008 is fast approaching.

Once again, the CubeSat Summer Workshop will be held the weekend before the annual Small Satellite Conference at the campus of Utah State University in Logan, Utah, USA. This is yet another opportunity for CubeSat developers from all over the world to get together to share ideas and knowledge gained from developing picosatellites. Speakers, discussion panels, and group sessions provide valuable insight and networking opportunities for all range

of developers. Visit www.cubesat.org for registration and details (the Summer Workshop 2008 section is currently under construction and will be updated).

If you have something to share with the CubeSat community? We are constantly looking for speakers and presentations that will inspire and support developers. If you are interested in presenting at the upcoming Summer Workshop, submit abstracts to us by visiting www.cubesat.org. Deadlines are posted below.

CubeSat Developers' Summer Workshop 2008
August 9th - 10th

Utah State University
Logan, Utah USA

Registration Deadline: August 1st, 2008
Abstract Submittal Deadline: June 20th, 2008
Abstract Acceptance Notification: July 4th, 2008

[ANS thanks Bryan for the above information]

/EX

SB SAT @ AMSAT $ANS-132.06
ARISS Status - 5 May 2008

AMSAT News Service Bulletin 132.06
From AMSAT HQ SILVER SPRING, MD.
May 11, 2008
To All RADIO AMATEURS
BID: $ANS-132.06

1. ARISS Space Day Contact Successful

On Saturday, May 3, the National Air and Space
Museum (NASM) in Washington, D.C.
participated in Space Day 2008, celebrating the 50th anniversary of NASA and NASA's achievements through space exploration. Radio Amateur Satellite Corporation (AMSAT) and Amateur Radio on the
International Space Station (ARISS)
members manned an activity station during the event. A highlight of the event
was an ARISS contact made possible through the assistance of telebridge station
NN1SS in Greenbelt, Maryland. Thirty questions were put to Garrett Reisman, KE5HAE, live, by ten children as approximately 200 gathered in the gallery. The
audio was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) Conference
Room servers and received 25 connections. It was also fed into the IRLP Discovery Reflector 9010, receiving 4 connections from Canada and the U.S. Additionally, the event was taped by the NASM staff. Space Day draws crowds

of
thousands annually.

2. Astronaut Training Status

Bob Thirsk, VA3CSA, participated in a successful Amateur Radio on the
International Space Station (ARISS) training session on Thursday, May 1. He
answered questions posed to him by students at the Cedarview Middle School
in
Ottawa, Ontario, Canada.

Expedition 19 back-up crew member Chris Hadfield, KC5RNJ/VA3OOG, also
attended
an ARISS operations training session on Friday, May 2.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

78. Earthquake In China

Newsgroup: rec.radio.amateur.space
Date: 2008-05-13 19:10:24 UTC
From: Robert <edmsecboi@shaw.ca>
Message-ID: <AIlWj.137167$Cj7.7432@pd7urf2no>
Source record: 758
Cross-posted to:
alt.ham-radio,alt.ham-radio.digital-voice,alt.ham-radio.dxing,alt.ham-radio.morse,rec.radio.amateur.misc,rec.radio.amateur.space

Just received this through a ARES reflector
==========

""Strong earthquake hits China, all ham radio operators stand by PLEASE HELP TO SPREAD THE FOLLOWING MESSAGE

Strong earthquake hits China, all ham radio operators stand by A Magnitude 7.8 earthquake hits Sichuan, China on Monday, May 12, 2008 at 06:28:04 UTC. Casualties and loss unknown up to now. According to Chinese Radio Sports Association, 14.270Mhz, 7.050 and 7.060 Mhz are preserved for amateur radio emergency service in the rescue. Please spread this message as far as you can and keep the frequencies clean for emergency use. Thank you.

Yesterday, 05:57 PM
BG8AAS from Chengdu, Sichuan reported that local UHF repeater survived in the disaster. It keeps functioning from the 1st minute and more than 200 local radio hams are now on that repeater. A group of hams from Chengdu has headed for Wenchuan, the center of the quake, trying to setup emergency communication services there.

BA8AB, also from Chengdu, Sichuan, is active on the 40m emergency frequency. Up to now, no further information available from the center zone of the quake. There are a few radio amateurs there, but all of the communications have been cut out, including amateur radio.

Yesterday, 06:58 PM
Update

According to BG8AAS, local UHF repeater in Chengdu keeps busy running after the quake. It helps to direct social vehicles to transport the wounded from Dujiangyan, Beichuan, and other regions. Another UHF repeater also starts its working in Mianyan, supported by generators.
However, they are going to face a shortage of gas.

Damage in Chengdu remains in the lowest level, but the situation is very very bad in the counties around. A few towns are said to be destroyed completely. More than 7000 died in the town of Beichuan. Casualties in several other towns are still unknown and not counted in the published numbers.

It is a long and sad day.

Today, 08:31 AM

Your attention please! 14.270Mhz is now reserved for ARES in 5.12 earth quake in Sichuan, China. Please help to keep this frequency clear.

A group of radio amateurs is now transmitting from Wenchuan, the center of quake. Its signal is reported to be very weak. They tried to keep communication with BY8AA in Chengdu, seeking for all resources needed. During a contact finished a few minutes ago, they were asking for raincoats, water, tents, and outdoor living facilities.

PLEASE HELP TO FORWARD THIS MESSAGE TO ALL RELEVANT FORUMS, MAILING LISTS, AND NEWS RESOURCES. MEANWHILE, KEEP THE ABOVE FREQUENCY CLEAN FOR EMERGENCY COMMUNICATION.

Michael Chen, BD5RV/4""

79. Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 03:27:29 UTC
From: No Spam <no@spam.com>
Message-ID: <KJadnSMZS_G8wbfVnZ2dnUVZ_sLinZ2d@comcast.com>
Source record: 759

Seems like allot of the amsat webpage info is outdated (The FAQ is dated 1994) and I find very little activity anywhere in reference to loggings or any QSOs in general.

I can't seem to hear any of these sats beacons when they are scheduled to be over my qth but after reading some googled webpages, allot of these sats are dead. The kelps are still maintained but I don't understand why if the sat is dead.

Is anybody making QSOs on any of the sats anymore? If so, where are they hanging out? Any mail list?

Thank you in advance for your responses

80. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 11:33:22 UTC
From: Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com>
Message-ID: <482ace58$0$7729$4c368faf@roadrunner.com>
Source record: 760

Hello,

Well, newsgroups are dead as well. Google does not even do a very good job with them anymore.

Check out:
http://www.amsat.org/amsat/archive/amsat-bb/48hour/threads.html
and
http://www.amsat.org/amsat/archive/amsat-bb/index.html

You will find allot more activity there.

Keps have to be kept for all things in orbit, dead or alive. AO-8 is back from the dead.

Packet radio seems dead as well. I am beginning to believe you could stick a fork in this hobby and it would not nudge save the CW QRP folks.

I might stop by Dayton this week and meet with some mentor type of people for a moral boost.

Best regards,

Chris

No Spam wrote:
> Seems like allot of the amsat webpage info is outdated (The FAQ is dated
> 1994) and I find very little activity anywhere in reference to loggings
> or any QSOs in general.
>
> I can't seem to hear any of these sats beacons when they are scheduled to
> be over my qth but after reading some googled webpages, allot of these
> sats are dead. The kelps are still maintained but I don't understand why
> if the sat is dead.
>
> Is anybody making QSOs on any of the sats anymore? If so, where are they
> hanging out? Any mail list?
>
> Thank you in advance for your responses

81. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 17:57:40 UTC
From: Jeff Davis <ke9v@sdf.lonestar.org>
Message-ID: <slrng2ma0h.loi.ke9v@otaku.freeshell.org>
Source record: 761

On 2008-05-14, No Spam <no@spam.com> wrote:
> Seems like allot of the amsat webpage info is outdated (The FAQ is dated
> 1994) and I find very little activity anywhere in reference to loggings
> or any QSOs in general.

AMSAT isn't so much "dead" as it is irrelevant. The direction mandated by the membership is to focus on high-earth orbit only projects. Given the present cost of launch opportunities this is mostly a pipe dream. They are constantly working on some HEO project, but haven't been involved with the successful launch of one since Ronald Reagan was president.

The only viable AMSAT projects are AO-51 (a fine LEO sat with plenty of info about it on their Web site) and their cooperation with ARISS.

Satellite enthusiasts spend these days playing with the fleet of CubeSats built mostly by University students and the few other aging sats in the fleet that work some days but not others.

--
jld

82. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 19:18:19 UTC
From: Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com>
Message-ID: <482b3b59$0$12963$4c368faf@roadrunner.com>
Source record: 762

Jeff Davis wrote:
> On 2008-05-14, No Spam <no@spam.com> wrote:
>
>>Seems like allot of the amsat webpage info is outdated (The FAQ is dated
>>1994) and I find very little activity anywhere in reference to loggings
>>or any QSOs in general.
>
>
> AMSAT isn't so much "dead" as it is irrelevant. The direction mandated by
> the membership is to focus on high-earth orbit only projects. Given the
> present cost of launch opportunities this is mostly a pipe dream.

It is worst than that. I indicated a Aerospace company was making a test launch of a new booster and was willing to hoist anything. I was assured by the powers at large that they had lots of contacts on the cap and that any launch possibility would be known about. A couple months later, Boeing pushed a 2 ton piece of concrete into orbit.

I would say AMSAT is disconnected from allot of things.

The Clinton Administration classifying satellites as munitions did not help things at the time.

Uhggg, it can be so frustrating.

Chris

83. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 19:55:00 UTC
From: Jeff Davis <ke9v@sdf.lonestar.org>
Message-ID: <slrng2mgsh.r1l.ke9v@otaku.freeshell.org>
Source record: 763

On 2008-05-14, Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>
> I would say AMSAT is disconnected from allot of things.

I can't disagree. I don't blame any of the AMSAT leaders for the rapidly rising cost of a launch. There was a day when $100,000 would pay for a ride. Today a ride to a transfer orbit to high-earth is millions -- $6 million at last check and that doesn't count the cost of the satellite itself.

Over the last two years they've managed to raise $150K for Eagle. At that rate, the Sun will have run out of energy by the time they have raised enough funds for a ride to HEO.

I hate it as much as everyone. I had great fun using AO-13. But facts are facts and truth is truth. The developers seem to be having a lot of fun plotting and planning and designing a spacecraft that will never fly...

It's long overdue for AMSAT to move down to LEO and then move forward.

--
jld

84. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 20:12:15 UTC
From: Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com>
Message-ID: <482b47fe$0$12907$4c368faf@roadrunner.com>
Source record: 764

Jeff Davis wrote:
> On 2008-05-14, Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>
>>I would say AMSAT is disconnected from allot of things.
>
>
> I can't disagree. I don't blame any of the AMSAT leaders for the rapidly
> rising cost of a launch. There was a day when $100,000 would pay for a ride.
> Today a ride to a transfer orbit to high-earth is millions -- $6 million at
> last check and that doesn't count the cost of the satellite itself.
>
> Over the last two years they've managed to raise $150K for Eagle. At that
> rate, the Sun will have run out of energy by the time they have raised
> enough funds for a ride to HEO.
>
> I hate it as much as everyone. I had great fun using AO-13. But facts are
> facts and truth is truth. The developers seem to be having a lot of fun
> plotting and planning and designing a spacecraft that will never fly...
>
> It's long overdue for AMSAT to move down to LEO and then move forward.
>

Well I sort of disagree.

My point is I had a contact offering a HEO heavy lift and was ignored.
For free, just show up with the payload. Well nothing is that easy, but
you know what I mean.

If I were to go back and look for such opportunities, would I be
ignored? I would hate to find a ride and look silly again.

These rides show up when a new set of launch vehicles are being reviewed
and nobody trusts them to fly their multi-billion satellite into orbit.

Chris

85. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-14 20:38:05 UTC
From: Jeff Davis <ke9v@sdf.lonestar.org>
Message-ID: <slrng2mjda.5d3.ke9v@otaku.freeshell.org>
Source record: 765

On 2008-05-14, Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>
> Well I sort of disagree.
>
> My point is I had a contact offering a HEO heavy lift and was ignored.
> For free, just show up with the payload. Well nothing is that easy, but
> you know what I mean.

I know what you mean. The satellite community in general has been hamstrung for decades because only a small handful of folks can design and build amateur satellites. Most of the key designers of AMSAT projects aren't even active on the air. They get their kicks from designing and buildnig satellites. If they fly, great! If they blow-up or fail on orbit, well, it's back to the drawing board.

But here's the kicker -- because their fun comes from designing and building sats, they want each one to be significantly different or bigger than the one before. That's the silliness that led to P3D -- better known as "the wasted decade". But it's this insistence that no two birds be alike, because that would be "boring" to the designers, that AMSAT has never been in the position of having five brand new, identical satellites sitting on the ground ready to go on a moments notice so when a ride opportunity comes along, like yours, they could jump on it.

The P4 proposal will be no different. They will toil at it for a few years, offer infrequent and incomplete reports on it, when the "folks" who pay for this stuff get upset they will offer some hope by telling them how close they are -- and then some major snafu will undo the entire thing and they will be off on another unobtainable quest...

--
jld

86. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-15 16:47:01 UTC
From: Ro <spam@garbage.com>
Message-ID: <482c6903$1$6032$ba620dc5@text.nova.planet.nl>
Source record: 766

Jeff Davis schreef:
> On 2008-05-14, Christopher Cox <chrisTOPHERcOX@coboxincORORATED.com> wrote:
>> Well I sort of disagree.
>>
>> My point is I had a contact offering a HEO heavy lift and was ignored.
>> For free, just show up with the payload. Well nothing is that easy, but
>> you know what I mean.
>

> five brand new, identical satellites sitting on the ground ready to
> go on a moments notice so when a ride opportunity comes along, like yours,
> they could jump on it.

That would be nice, having a bunch of satellites on the shelf.

Out of curiousity:
What kind of capabilities do we want those satellites to have?

Do-anything sats like ao-40 or very basic machines that just do U/V with
500 milliwatt ERP. It would be nice to see a list of 'must have' features.

73 Roland PF2T

87. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-15 18:40:18 UTC
From: Jeff Davis <ke9v@sdf.lonestar.org>
Message-ID: <slrng2p0se.q1i.ke9v@otaku.freeshell.org>
Source record: 767

On 2008-05-15, Ro <spam@garbage.com> wrote:
>
> Out of curiousity:
> What kind of capabilities do we want those satellites to have?

The old guard at AMSAT seems to clamor for a P3C (AO13) clone.

I'm not certain there is much point in re-hashing the debate though. I think that the era has passed. $6 million dollars for a launch is simply an impossible amount for a group of 2000 or so hobbyists to raise through donations and bake sales, etc.

I don't see it as going out on a limb here to predict that AMSAT will never launch another successful bird to HEO. If you think about it, their track record with the phase 3 sats wasn't very good when a launch was affordable.

P3A went into the ocean on launch

P3B (AO-10) collided with the launch structure and never lived up to its expectations. While lots of QSOs have been made with this Sat it hasn't been controllable for decades.

P3C (AO13) was the only successful P3 satellite. But it's life was cut short because of an orbital miscalculation. It re-entered twelve years ago.

P3D (AO40) never delivered even a fraction of its planned capabilities and unceremoniously blew-up on orbit.

P3E has been promised to be launched in 2006, 2007, 2008, 2009 ... and it still sits in an assembly building on the ground. This one *might* make it to orbit, but I wouldn't bet real money on it.

And that's it. The entire history of P3 satellites. I think it points out that this is a rough and risky business and that indeed, it is rocket science and not so easy to pull off.

AMSAT has plenty of smart people and they are dedicated and hard working. But all of this tells me that the task is simply too difficult to reliably pull-off. And when you can only afford "one shot" every 10 or 15 years, the cards are stacked against you -- and now with multi-million dollar launch costs, it's the final nail in the coffin for AMSAT at HEO.

The opportunity is much more fertile at LEO and that's precisely where AMSAT should be focusing their energies. But the old guard simply won't hear of any more LEO birds. They are demanding HEO sats and so the long unproductive dance continues for another fruitless decade...

--
jld

88. ANS-138 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-05-18 15:57:35 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501c8b8e6$16d36240$447a26c0$@net>
Source record: 768
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-138

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT Introduces Team Namaste at Dayton Hamvention
* AMSAT Designates Delfi-C3 as DO-64
* AMSAT at Dayton - First Report
* AO-16 Operations Update
* Second Call For Speakers at AMSAT-UK Colloquium
* Satellite Shorts From All Over
* ARISS Status Report for the Week of May 12, 2008

SB SAT @ AMSAT $ANS-138.01
AMSAT Introduces Team Namaste at Dayton Hamvention

AMSAT News Service Bulletin 138.01
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.01

Team Namaste, a new AMSAT engineering team, was introduced at the Dayton Hamvention held over May 16-18. AMSAT's Eagle and the Intelsat Phase IV ride-share project will include the Advanced Communications Package (ACP) supporting digital communications with a 5.6 GHz uplink and 3.4 GHz downlink.

Team Namaste includes the ACP Ground Segment led by Michelle, W5NYV and the ACP Satellite Segment led by Matt, N2MJI.

Michelle described the ground segment, "Namaste is the effort to develop a microwave band, digital signal capable earth station attainable by the average ham so users can immediately take advantage of the audio, digital messaging, and video services our new new satellites will provide."

Two key user audiences are the target of the Namaste earth station. Michelle describes the user base, "First we want to excite amateur radio operators who want to have fun using microwave bands to talk through a satellite employing digital communications techniques. Second, we want to serve emergency communications operators who need a reliable, infrastructure-independent system in order to get their work done."

The Ground Segment and Satellite Segment Teams are developing an RF link budget and system configuration which a reasonably priced amateur radio transceiver can attain. No commercial amateur radio gear exists for the GHz-frequency range and digital communication link for the new mode on AMSAT high orbit satellites.

Antenna configuration and available power are limited on the satellite platform depending upon solar cells and batteries. Given the modern reality of CC&R's and antenna restrictions in many communities the baseline antenna at the amateur station is currently specified as a half-meter dish. This is the same type and size of dish many homes use for satellite television such as DirecTV.

Planning for the ACP includes 20 watts RF power with 18dB antenna gain at the spacecraft. The ground segment rule of thumb at present estimates 10 watts of transmitter power with the half-meter dish is needed. Further radio link budget and RF exposure safety issues are also being investigated.

AMSAT welcomes Team Namaste, leading the way to an exciting future of Amateur Radio in Space. Questions and comments can be sent via e-mail to namaste-dev@amsat.org. Team Namaste has a web page at: http://www.amsat.org/namaste.

[ANS thanks Michelle, W5NYV for the above information]

/EX

SB SAT @ AMSAT $ANS-138.02
AMSAT Designates Delfi-C3 as DO-64

AMSAT News Service Bulletin 138.02
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.02

Bill Tynan, W3XO issued the following statement on behalf of the AMSAT Board of Directors this week:

By the authority vested in me by the AMSAT-NA President, I am pleased to issue an OSCAR number for the amateur radio satellite, Delfi C-3.

As attested to in a communication to the AMSAT-NA Board of Directors dated 8 May, 2008, from Wolter Jan Ubbels, the spacecraft's Project Manager; Delfi C-3 was successfully launched 28 April, 2008 from India aboard a Polar launch vehicle. Mr. Ubbels also states that the satellite

was successfully commissioned and is currently transmitting telemetry on the 2 meter amateur band. In addition to its 2 meter downlink, Delfi C-3 has an uplink on the 70 cm band.

According to Mr. Ubbels, this newest amateur satellite was developed by a team of some 60 students and facility members in the fields of Aerospace Engineering, Electrical Engineering, Mathematics and Computer Science from various polytechnic schools in The Netherlands. Further, he states that Delfi C-3 carries 2 experiments, one involving thin film solar cells developed by Dutch Space and the other, an Autonomous Wireless Sun Sensor from the Dutch Government Research Institute (TNO).

Mr. Ubbels' letter says that Delfi C-3 has been duly coordinated through the Region 1 IARU representative, Mr. Graham Shirville, G3VZV, and that the satellite meets all of the criteria necessary to be issued an OSCAR number.

In response to the information provided by Mr. Ubbels, I hereby issue the designation Delfi-C3 OSCAR-64 or Dutch OSCAR-64. The shortened version of either of these two designation would, of course, be, DO-64.

AMSAT-NA is pleased to welcome DO-64 into the family of amateur Radio satellites. We are hopeful that it will fulfill its intended mission of furthering education and increasing interest in the Amateur Radio space program. We congratulate all of those responsible for designing, building, testing and launching this new Amateur Radio satellite and look forward to its long and productive life.

73,
William A. (Bill) Tynan, W3XO

[ANS thanks Bill, W3XO for the above information]

/EX

SB SAT @ AMSAT $ANS-138.03
AMSAT at Dayton - First Report

AMSAT News Service Bulletin 138.03
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.03

The AMSAT booth at the Dayton Hamvention included the first stages of the full-scale engineering unit of the Eagle satellite structure. This consists of the inner 4 honeycomb panels where electronics are mounted, along with four channels and two electronics boxes. The half-scale model of Eagle was also on display. After the Hamvention the Eagle engineering unit will return to the AMSAT Maryland Lab for further development, integration, and testing.

Radio amateurs were able to get a taste of satellite operations at the live satellite demos. Using the callsign W5IU the demo team was

on-the-air via AO-7, AO-16, AO-27, AO-51, and VO-52 on Friday, Saturday, and Sunday.

Tom Clark, K3IO gave a presentation discussing the highlights of AMSAT's technical achievement and plans at the ARRL TTF Forum. The AMSAT forum provided updates on Eagle and Intelsat. More information will be coming in future weeks via ANS and the AMSAT Journal.

AMSAT Engineering representatives were on hand to show off and discuss project status for the ACP, Eagle, Phase IV, P3E, SuitSat-2, and digital encoding.

The combined AMSAT/TAPR Banquet was one of the more popular events of the weekend. Pictures and more stories to follow when they are ready.

The Spring 2008 issue of CQ-VHF magazine, planned to be available at the Hamvention, featured AMSAT in three articles. Lou W5DID & JoAnne K9JKM had an article covering SuitSat-2. Bob KF4KSS & JC W3JCT had an article about AMSAT's new lab, and Keith W5IU wrote a column of amateur radio in space history and AMSAT's history.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-138.04
AO-16 Operations Update

AMSAT News Service Bulletin 138.04
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.04

The AO-16 satellite has undergone a few periods of turning off with subsequent restarts ensuring operation for varying periods of time.

Mark, N8MH, Control Operator turned AO-16 ON in voice mode to suppot a Scouting Special Events Station. The output power was reduced slightly in an attempt to conserve power in the event that batteries or the solar cells were having problems.

George, KA3HSW, operating from the Scouting Event wrote, "Many thanks to Mark for making AO-16 available during the K9BSA Scout-O-Rama demonstration yesterday, and MANY, MANY thanks for "advertising" that our station was there on the 1950Z pass... we worked quite a number of stations, thanks in large part to Mark's announcement on the bird."

In response to observing stations around the world reporting AO-16 was turned off again Mark provided the latest information, "AO-16 continues to exhibit difficulty in keeping the transmitter turned ON. The last few days I have turned it ON as my schedule permits, only to see it turn itself OFF after a short time (sometimes minutes, other times a few hours). So, it hasn't been turned ON much over

the last several days. It is looking less likely to be a power budget issue, and more likely that there is something going on with the hardware in the spacecraft; but this is still speculation. Time will tell. I wish the news was better!"

If you hear AO-16 in voice mode, free to use it. If you hear it "hummmming" in digital mode, please do not transmit to the satellite.

AO-16 Uplink: 145.920 MHz FM
AO-16 Downlink: 437.0260 MHz DSB (LSB and USB)

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-138.05
Second Call For Speakers at AMSAT-UK Colloquium

AMSAT News Service Bulletin 138.05
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.05

This is the second call for speakers for the 22nd Amsat-UK Colloquium which will be held at Surrey University, Guildford, Surrey, U.K., from Friday 25th July to Sunday 27th July 2008.

Details of this and previous events can be found at: http://www.uk.amsat.org.

Amsat-UK invite speakers, about amateur radio space and associated activities, for this event. They are also invited to submit papers for the "Proceedings" document which will be published at the same time but printed papers are not mandatory. We normally prefer authors to present talks themselves rather than having someone else give them in the authors' absence. We also welcome "unpresented" papers for the Proceedings document.

Offers of talks should be submitted as soon as possible; the final date for full documents to be received is late-June 2008 in order that the "Proceedings" document be available to participants.

Submissions should be sent *ONLY* to G4DPZ, via the following routes:

Internet e-mail: dave @ g4dpz dot me dot uk

SnailMail: QTHR from http://www.qrz.com

AMSAT-UK also invite anyone with requests for Program Topics to submit them as soon as possible to G4DPZ. Invitations for any papers on specific subjects will be included in the future call. Likewise if anyone knows of a good speaker, please send contact and other information to G4DPZ.

[ANS thanks Dave, G4DPZ for the above information]

/EX

SB SAT @ AMSAT $ANS-138.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 138.06
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.06

+ Yuta Araki, JQ1YGV at Nihon University says an updated version of the SEEDS cubesat telemetry analysis software is available from http://cubesat.aero.cst.nihon-u.ac.jp/english/download_e.html. This will be Ver.2.0.2 of Downlink Code for Distribution.

+ Spaceweather.com's simple Satellite Tracker has gone global. The tool now works not only for US and Canadian readers, but also for sky watchers in countries around the world. This development comes as the International Space Station is making bright and frequent nightly apparitions over Europe, Africa, the Middle East, parts of Asia and Australia. If you live in those areas, give it a try: http://spaceweather.com/flybys [via SpaceWeather.com]

+ Art Feller, W4ART has posted photos from AMSAT/ARISS participation at Space Day at the National Air and Space Museum to: http://picasaweb.google.com/oojimoe/2008SpaceDayNASM

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-138.07
ARISS Status Report for the Week of May 12, 2008

AMSAT News Service Bulletin 138.07
>From AMSAT HQ SILVER SPRING, MD.
May 18, 2008
To All RADIO AMATEURS
BID: $ANS-138.07

1. Upcoming School Contact

Delta Researchers Schools 2008, Space Expo in Noordwijk, the Netherlands, has been scheduled for an ARISS contact via tele-bridge station WH6PN in Hawaii. The contact will take place on Friday, May 23 at 15:01 UTC. Twelve Dutch primary schools which participate in the Delta-project will be represented at Space Expo. The project is a cooperation of the Dutch ministry of Education, Culture and Science, the European Space Agency (ESA) and NASA. The schools participating in the project use the themes of space and space exploration to teach science and technology. Three chil-dren (ages 7 - 12) from each school will be present.

2. Armada Area Schools - ARISS Contact Postponed

The ARISS contact which was scheduled with Armada area schools in Michigan on May 9 was postponed due to crew scheduling issues. It will be rescheduled in the fall. In place of the May 9 contact, the Teaching From Space Office at Johnson Space Center arranged a tele-conference between the Armada students and astronaut Bill McArthur in Houston Texas. Bill spent several minutes talking about the International Space Station and answered in detail 15 student questions. There were approximately 550 participants present at the school. The Teaching From Space Office also sent an educational resource package to the school which included seeds that were flown in space. The Armada schools are looking forward to a direct ARISS contact in the fall.

3. ARISS Founder Ron Parise Passes on

Astronaut Ron Parise, WA4SIR, passed away on Friday, May 9. Ron was a key player in the development of the ARISS program and a strong supporter of educational outreach activities. He spoke with hundreds of hams on the ground during his Shuttle flights STS-35 and STS-67 and was the first to operate packet radio in orbit. He was instrumental in developing both the ISS Ham radio systems currently onboard the ISS and the telebridge station concept with the specific purpose of encouraging students to pursue studies in technical fields.

The American Radio Relay League (ARRL) published this story:
http://www.arrl.org/news/stories/2008/05/10/10092/?nc=1

4. ARISS Member Interviewed on Australian TV

ARISS member Tony Hutchison, VK5ZAI, was interviewed and appeared on the Australian Channel 7 Today Tonight Show. He described his work with the educational ARISS program. The Wireless Institute of Australia (WIA) posted the news clip with permission from Channel 7. See:
http://www.wia.org.au/discover/videoaudio/video/documents/Low_VK5ZAI_Today_Tonight_320X240X256.wmv

5. NASA Tool Aids Amateur Radio Operators

The American Radio Relay League (ARRL) ran an article covering NASA's new 4D Ionosphere tool. The tool can aid amateur radio operators in radio communications. To view the story, go to:
http://www.arrl.org/news/stories/2008/05/07/10081/?nc=1

NASA's article has been posted to:
http://science.nasa.gov/headlines/y2008/30apr_4dionosphere.htm?list212589

6. Wings over the Rockies Amateur Radio Event

On Friday, May 23, Wings over the Rockies Air and Space Museum in Denver, Colorado will open a new exhibit, "Colorado's Astronauts: in their own words." It will also host ceremonies for the presentation of NASA's Ambassador of Exploration Award honoring one of Colorado's astronauts, Jack Swigert. NASA officials will present the award to Jack Swigert's sister, Virginia Swigert. Guests include James A.

Lovell, Fred Haise, Ken Mattingly as well as other astronauts and Colorado Governor Bill Ritter. To celebrate the event, an amateur radio special event station K0WAR, will operate on 14250 or 7250 kHz from 09:00 to 21:00 local Denver time (May 23, 15:00 UTC to May 24, 03:00 UTC). An 8-1/2 x 11 QSL certificate will be distributed to confirmed contacts providing an SASE. For more information on the event, see: http://www.wingsmuseum.org/index.php

7. ARISS Presentation at Dayton Hamvention

The American Radio Relay League (ARRL) and the Radio Amateur Satellite Corporation (AMSAT) both supported exhibit booths the Dayton Hamvention. ARISS Australian telebridge operator Tony Hutchison, VK5ZAI, gave a presentation on "A Ham Radio Operator's View of ARISS" at the AMSAT forum covering new ARISS initiatives and a status report on SuitSat-2. The Dayton Hamvention is an internationally attended amateur radio convention that draws crowds of 25,000 annually. For more information on Dayton Hamvention 2008, go to: http://www.hamvention.org/hv2008/forums/forumlist.htm

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

89. An excerpt from ARES Newsletter 5-21-08

Newsgroup: rec.radio.amateur.space
Date: 2008-05-21 10:42:31 UTC
From: Buck <usenet01@lumpuckeroo.com>
Message-ID: <d0v7345usj4ukm4udrnhe8n9shmpvaolrb@4ax.com>
Source record: 769

+ The View from Flagler County

Add a satellite capability to your EmComm arsenal. If terrestrial platforms are out, a satellite may be all you have left. Operating through low earth orbiting satellites also improves operating skill: it's like driving your car with the road moving. You must tune your uplink and downlink frequencies to compensate for a fast Doppler shift, as you send and receive your CW or SSB signal. It's not easy at first; but like anything, the more you practice, the better you get.

Try the FM repeater bird AO-51 first, with an uplink of 145.90 MHz, and a downlink of 435.225 MHz. No fancy tracking software is necessary: Use AMSAT's pass predictor at: <http://www.amsat.org/amsat-new/tools/predict/>.

You won't be satisfied for long on AO-51. Move up to VO-52 for real operating on a wide transponder pass band: the uplink is 435.220 MHz to 435.280 MHz and the downlink is 145.870 to 145.930 MHz. Both SSB and CW work just fine. Signals are good without preamplifiers, nor even rotating beam antennas. Believe it or not, I use a cheap, simple fixed 2-meter/70 cm beam <http://www.arrowantennas.com> pointed skyward at a 45 degree angle. Prior to the pass, I check the AMSAT predictor for the access times and the highest elevation azimuth, and walk out to the backyard and hand turn the mast accordingly. I usually get a ten-minute window and decent signals to work a few CW contacts, including a recent one with Honduras. For upgrades, I am planning to add a separate 70 cm beam to reduce a bit of de-sense on voice operation, and a used/rebuilt Alliance U-110 rotator from <http://www.rotorservice.com>.

It's not rocket science (pun intended): if I can do it, anybody can do it. Satellites may be all you have in a doomsday scenario, and are great ways to improve your operating skill. (And frankly, they are a blast of fun to play with!)

90. Re: An excerpt from ARES Newsletter 5-21-08

Newsgroup: rec.radio.amateur.space
Date: 2008-05-21 12:36:13 UTC
From: JoAnne Maenpaa <k9jkm@amsat.org>
Message-ID: <Ctqdnf_4qOG4iqnVnZ2dnUVZ_jOdnZ2d@comcast.com>
Source record: 770

> Try the FM repeater bird AO-51 first, with an uplink of 145.90 MHz,
> and a downlink of 435.225 MHz. No fancy tracking software is
> necessary: Use AMSAT's pass predictor at:
> <http://www.amsat.org/amsat-new/tools/predict/>.

AO-51's frequencies are:

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

A quick overview of AO-51 operating status is posted on the main AMSAT
web page http://www.amsat.org.

91. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-22 16:27:07 UTC
From: Hils <hils@nospam.demon.co.uk>
Message-ID: <DAVwHZ7b7ZNIFwCL@newearth.demon.co.uk>
Source record: 771

Jeff Davis <ke9v@sdf.lonestar.org> wrote

>AMSAT has plenty of smart people and they are dedicated and hard working.
>But all of this tells me that the task is simply too difficult to reliably
>pull-off. And when you can only afford "one shot" every 10 or 15 years, the
>cards are stacked against you -- and now with multi-million dollar launch
>costs, it's the final nail in the coffin for AMSAT at HEO.
>
>The opportunity is much more fertile at LEO and that's precisely where AMSAT
>should be focusing their energies. But the old guard simply won't hear of
>any more LEO birds. They are demanding HEO sats and so the long unproductive
>dance continues for another fruitless decade...

Well said.

If national AMSAT organisations are interested primarily in spending members' money on vapourware and jollies, what's to stop an independent multinational group using global communications (and, if necessary, the global market) to develop new-generation LEOs?

My preferences would be for science/education packages (like the original Uosats), accessible linear transponders (like the Soviet RS series), built with more robust command systems, anti-alligator DSP, and more radiation-hardened components.

--
Hil

92. WSR-143 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-05-23 03:21:35 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001c01c8bc84$1f47c000$5dd74000$@net>
Source record: 772
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-143.S1
WSR 143 Part 1 05/22/2008

AMSAT NEWS SERVICE BULLETIN 143.S1 FROM AMSAT HQ
SILVER SPRING, MD, May 22, 2008
TO ALL RADIO AMATEURS
BID: $ANS-143.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[05152008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-143.S2
WSR 143 Part 2 05/22/2008

AMSAT NEWS SERVICE BULLETIN 143.S2 FROM AMSAT HQ
SILVER SPRING, MD, May 22, 2008
TO ALL RADIO AMATEURS
BID: $ANS-143.S2

CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]

=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[05152008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05012008]
=====
AAUSAT-II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05012008]
=====
Cute-1.7+APD II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05012008]
=====
Compass 1
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05012008]
=====
DO-64 Delfi-C3
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05222008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====

INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-143.S3
WSR 143 Part 3 05/22/2008

AMSAT NEWS SERVICE BULLETIN 143.S3 FROM AMSAT HQ
SILVER SPRING, MD, May 22, 2008
TO ALL RADIO AMATEURS
BID: $ANS-143.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40

Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz

145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]

=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW

[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-143.S4
WSR 143 Part 4 05/22/2008

AMSAT NEWS SERVICE BULLETIN 143.S4 FROM AMSAT HQ
SILVER SPRING, MD, May 22, 2008
TO ALL RADIO AMATEURS
BID: $ANS-143.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-143.S5
WSR 143 Part 5 05/22/2008

AMSAT NEWS SERVICE BULLETIN 143.S5 FROM AMSAT HQ
SILVER SPRING, MD, May 22, 2008
TO ALL RADIO AMATEURS
BID: $ANS-143.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors

to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the
memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,
G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

93. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-23 03:25:50 UTC
From: Scott <acepilotREMOVE@bloomer.net>
Message-ID: <msednWbNeK2jpKvVnZ2dnUVZ_uGdnZ2d@bright.net>
Source record: 773

Hils wrote:
> Jeff Davis <ke9v@sdf.lonestar.org> wrote
>
>> AMSAT has plenty of smart people and they are dedicated and hard working.
>> But all of this tells me that the task is simply too difficult to
>> reliably
>> pull-off. And when you can only afford "one shot" every 10 or 15
>> years, the
>> cards are stacked against you -- and now with multi-million dollar launch
>> costs, it's the final nail in the coffin for AMSAT at HEO.
>>
>> The opportunity is much more fertile at LEO and that's precisely where
>> AMSAT
>> should be focusing their energies. But the old guard simply won't hear of
>> any more LEO birds. They are demanding HEO sats and so the long
>> unproductive
>> dance continues for another fruitless decade...
>
>
> Well said.
>
> If national AMSAT organisations are interested primarily in spending
> members' money on vapourware and jollies, what's to stop an independent
> multinational group using global communications (and, if necessary, the
> global market) to develop new-generation LEOs?
>
> My preferences would be for science/education packages (like the
> original Uosats), accessible linear transponders (like the Soviet RS
> series), built with more robust command systems, anti-alligator DSP, and
> more radiation-hardened components.
>
I'm all for the linear transponders! I'm tired of FM birds. I'd really
love to have a "HEO" satellite so I can get more than 10 minutes to try
and squeeze in a QSO on a pass.

Scott
N0EDV

94. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-23 12:59:54 UTC
From: Jeff Davis <ke9v@sdf.lonestar.org>
Message-ID: <slrng3dfua.mks.ke9v@otaku.freeshell.org>
Source record: 774

On 2008-05-23, Scott <acepilotREMOVE@bloomer.net> wrote:
> I'm all for the linear transponders! I'm tired of FM birds. I'd really
> love to have a "HEO" satellite so I can get more than 10 minutes to try
> and squeeze in a QSO on a pass.

We would all enjoy that. But since that isn't going to happen, what *else*
would you like to be able to do with amateur satellites?

--
jld

95. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-23 13:42:04 UTC
From: gwatts <gwatts@frontiernet.net>
Message-ID: <NQzZj.55132$mz3.47600@fe101.usenetserver.com>
Source record: 775

Jeff Davis wrote:
> On 2008-05-23, Scott <acepilotREMOVE@bloomer.net> wrote:
>
>>I'm all for the linear transponders! I'm tired of FM birds. I'd really
>>love to have a "HEO" satellite so I can get more than 10 minutes to try
>>and squeeze in a QSO on a pass.
>
>
> We would all enjoy that. But since that isn't going to happen, what *else*
> would you like to be able to do with amateur satellites?

Nothing.

If all it will be are FM LEOs then quit spending the money and cede space to the high dollar commercial and military interests and the academic groups that put up cubesats.

A single channel repeater in the sky is a waste of time and resources for all but the few who use high power amplifiers on COTS rigs, any pretense of 'amateur spirit' or 'emergency preparedness' is nothing more than vanity.

If the amateur community can't get a free or discounted ride to do something more than put up another repeater then we really are an anachronism and have no business playing in space. There was an offer for a free HEO lift and apparently it was ignored. This indicates those in charge are more interested in accolades than in operating, which means they shouldn't be in charge. I quit paying my AMSAT dues when this became apparent and my opinion wasn't even worth what my dues were.

AMSAT should be about something greater, P3's, P4's or at least something a little more difficult than what a bunch of college seniors can accomplish in a semester or two, something that offers a challenge to those of us building a ground station and allows more than a quick calls and signal report exchange between other stations doing the same. If AMSAT can't better that they should dissolve and get used to being the mere footnote they're rapidly becoming.

- Galen, W8LNA

96. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-23 20:06:07 UTC
From: Jeff Davis <ke9v@sdf.lonestar.org>
Message-ID: <slrng3e8tf.329.ke9v@otaku.freeshell.org>
Source record: 776

On 2008-05-23, gwatts <gwatts@frontiernet.net> wrote:
>
> If all it will be are FM LEOs then quit spending the money and cede
> space to the high dollar commercial and military interests and the
> academic groups that put up cubesats.

Why -- just because you don't like them?

I'm not a big fan or a user of the FM sats, but amateur satellite enthusiasts haven't had a properly functioning HEO sat in nearly thirteen years. Somehow, they have managed to entertain themselves with assets at LEO for a long, long time without growing weary.

Most of today's satellite enthusiasts weren't even around for AO-13 and really have no idea what the HEO sats were like. Those that were have mostly given up and sold all their gear.

And good thing too, since we will never see another amateur satellite in a high orbit.

We can plan and build and launch new satellites in low earth orbit, or we can take all our toys and go home. HEO has become a pipe-dream. A potemkin facade. A way of spending countless years and decades working on things that sound great but never quite materialize...

--
jld

97. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-05-24 06:22:18 UTC
From: No Spam <no@spam.com>
Message-ID: <KJydnQ1BRPWHKarVnZ2dnUVZ_vKdnZ2d@comcast.com>
Source record: 777

On Fri, 23 May 2008 09:42:04 -0400, gwatts wrote:

> Jeff Davis wrote:
>> On 2008-05-23, Scott <acepilotREMOVE@bloomer.net> wrote:
>>
>>>I'm all for the linear transponders! I'm tired of FM birds. I'd
>>>really love to have a "HEO" satellite so I can get more than 10 minutes
>>>to try and squeeze in a QSO on a pass.
>>
>>
>> We would all enjoy that. But since that isn't going to happen, what
>> *else* would you like to be able to do with amateur satellites?
>
> Nothing.
>
> If all it will be are FM LEOs then quit spending the money and cede
> space to the high dollar commercial and military interests and the
> academic groups that put up cubesats.
>
> A single channel repeater in the sky is a waste of time and resources
> for all but the few who use high power amplifiers on COTS rigs, any
> pretense of 'amateur spirit' or 'emergency preparedness' is nothing more
> than vanity.
>
> If the amateur community can't get a free or discounted ride to do
> something more than put up another repeater then we really are an
> anachronism and have no business playing in space. There was an offer
> for a free HEO lift and apparently it was ignored. This indicates those
> in charge are more interested in accolades than in operating, which
> means they shouldn't be in charge. I quit paying my AMSAT dues when
> this became apparent and my opinion wasn't even worth what my dues were.
>
> AMSAT should be about something greater, P3's, P4's or at least
> something a little more difficult than what a bunch of college seniors
> can accomplish in a semester or two, something that offers a challenge
> to those of us building a ground station and allows more than a quick
> calls and signal report exchange between other stations doing the same.
> If AMSAT can't better that they should dissolve and get used to being
> the mere footnote they're rapidly becoming.
>
> - Galen, W8LNA

Has anybody thought about contacting Dish or it's insurance company about
the bird they abandoned due to a lifter failure?

98. ANS-145 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-05-25 02:22:03 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000801c8be02$376902a0$a63b07e0$@net>
Source record: 778
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-145

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

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SB SAT @ AMSAT $ANS-145.01
AMSAT-NA Board of Directors Nomination Announcement

AMSAT News Service Bulletin 145.01
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.01

Nominations are open for the AMSAT-NA Board of Directors (BOD). The nominations must be in writing and received at the AMSAT office by end of business June 15, 2008.

AMSAT-NA member societies or five current individual members may make nominations of fellow members to serve a 2-year term. Three of the seven seats must be filled this year.

The board members whose terms are expiring are:

Tom Clark, K3IO
Lou McFadin, W5DID
Bob McGwier, N4HY

Prospective AMSAT-NA BOD members generally attend two meetings each year, usually during the first and third quarters of the year. Attendance at the meetings is mandatory. Travel expenses for BOD meetings are paid for by AMSAT-NA.

Nominations must be in writing and mailed to:

AMSAT-NA
Board of Director Nomination
850 Sligo Ave #600
Silver Spring, MD 20910

The nominations with descriptive information about each candidate will be mailed out July 15, 2008. Ballots must be received in Silver Spring,MD by September 15, 2008. Only active members as of July 24, 2008 are eligible to vote.

[ANS thanks AMSAT HQ for the above information]

/EX

SB SAT @ AMSAT $ANS-145.02
Delfi-C3 DO-64 Tests Linear Transponder

AMSAT News Service Bulletin 145.02
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.02

During the past week the Delfi-C3 satellite DO-64 has continued its science mission. But, during a pass over the Delfi-C3 ground station on May 15 the amateur band linear transponder was successfully tested and activated for a short time. The CW beacon was received well and subsequently good signals using SSB were received. An audio file of the test can be found at:
http://www.delfic3.nl/photoblog/wp-content/uploads/2008/05/pe4wj_transponder_test.mp3

The Delfi ground control team is currently performing tests while the spacecraft is over the Netherlands to address the downlink drop-out issue. These tests may require several passes over the ground controllers so the satellite may still experience downlink dropouts over the coming days.

The current operating mode of Delfi can be found on its webpage at:
http://www.delfic3.nl/index.php?option=com_content&task=view&id=93&Itemid=122
While in science mode Defli has continued operation on a downlink of 145.930 MHz, transmitting 1200 Baud BPSK AX.25 telemetry data. Reminder: Delfi-C3 does not have a battery on-board and will therefore only be active in sunlight. The latest keplerian elements for Delfi can also be found on the operations web page.

The Delfi team reported, "Up to now, we have received over 130000 AX.25 frames from all over the world, thank you very much for your efforts and observations so far!"

[ANS thanks Wouter Jan Ubbels, PE4WJ for the above information]

/EX

SB SAT @ AMSAT $ANS-145.03
Global Packet Operation Activated on Cute1.7 + APD II

AMSAT News Service Bulletin 145.03
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.03

Hiroki Ashida, JQ1YCZ reported this week that the Tokyo Institute of Technology enabled continuous packet telemetry on their cubesat, Cute1.7 + APD II. This was to support a 12 hour experiment of the Avalanche Photo Diode APD) as a radiation monitor of low-energy (E > 10 keV) particles trapped in low Earth orbit.

Prior to the activation of this experiment packet telemetry had only been activated when the Cute1.7 + APD II cubesat was within range of the Japanese ground control station.

The FM packets were received on 437.475MHz from amateur radio station around the world. Packet formats and additional satellite information can be found at:
http://lss.mes.titech.ac.jp/ssp/cute1.7/fm_mode_apd_e.html

[ANS thanks Hiroki Ashida, JQ1YCZ for the above information]

/EX

SB SAT @ AMSAT $ANS-145.04
AO-16 Operation Update

AMSAT News Service Bulletin 145.04
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.04

Mark Hammond, N8MH, AO-16 Command Station gave an update of testing on the AO-16 satellite. Mark commented, "Indeed, over the last several days you are likely to have found AO-16 silent. There appears to be something in the spacecraft shutting down the transmitter after a short, random period of time. Current speculation on the problem includes a temperature issue that has reared its ugly head now that the eclipse periods are increasing and the spacecraft internal temperatures are decreasing. It may be a hardware timer. It does not appear to be a battery issue."

The ground control station will manually turn the satellite ON and
then configure it for voice operations. This is a manual process
and command stations are limited to the East coast of the US. As
schedules permit, we'll try to turn it ON; for now, it's the best
we can do. Time will tell if the current situation will stay the
same, improve, or get worse.

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-145.05
China Plans Amateur Radio Satellite Launch

AMSAT News Service Bulletin 145.05
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.05

A report has been received via Michael Chen, BD5RV/4 that a new
amateur radio satellite to be launched by China, CAS-1 has completed
its IARU frequency coordination and the hardware has been finished.

The payload is planned to include a CW Telemetry Beacon, Linear Trans-
ponder, FM repeater and a Digital Store-forward Transponder. The oper-
ations will use 70cms downlinks and 2 meter uplinks at 500mW output
power. The satellite is expected to have a mass of 30kgs and be
launched from China into a sun syncronous orbit with a 670km apogee.

The CAS-1 team is waiting for another payload to be finished before
launch which at this point is predicted to happen in early 2009.

[ANS thanks Michael, BD5RV/4 for the above information]

/EX

SB SAT @ AMSAT $ANS-145.06
AO-51 To Switch to Dual V/U Repeater Mode

AMSAT News Service Bulletin 145.06
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.06

AO-51 will switch into dual V/U repeater mode UTC May 26, 2008. Take
advantage of the secondary repeater for historically easier operation.
Information about the AO-51 modes and frequencies can be found on the
AMSAT web site.

[ANS thanks the AO-51 Operations Team for the above information]

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SB SAT @ AMSAT $ANS-145.07
Call For Papers: UNIVERSAT Space Symposium in Moscow

AMSAT News Service Bulletin 145.07
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.07

Members of EU-Amsat, Amsat-UK, Amsat-NA and anyone else interested in Amateur radio satellites are cordially invited to submit papers on space related subjects - particularly cubesats in education - to The third International Symposium UNIVERSAT-2008, which is organised by the Skobeltsyn Institute Of Nuclear Physics, Lomonosov Moscow State University - which will take place on September 1-6, 2008 at the Conference Halls of The Moscow State University Boarding Houses in Zvenigorod, Moscow Region, Russian Federation.

Details can be seen at http://cosmos.msu.ru/universat2008/.

Papers and/or queries should be submitted to Alezander Zeitsev RW3DZ via e-mail: zaitsev@izmiran.ru.

The deadline for papers is May the 31st but extensions may be possible.

This is an excellent forum for satellite interested individuals to take part in an international space symposium as well as discuss the possibility and prospects for future projects and launch opportunities.

[ANS thanks Alezander Zeitsev RW3DZ for the above information]

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SB SAT @ AMSAT $ANS-145.08
Yubileiny RS-30 Launched on May 23

AMSAT News Service Bulletin 145.08
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.08

The Russian Federal Space Agency announced the successful launch of the Yubileiny, a 45 kg small satellite, on May 23 from the Plesetsk Launching Site into low earth orbit.

The motive for development of Yubileiny small spacecraft was the 50th anniversary of the first space satellite. One mission goal includes flight qaulification of the new space systems and equipment. Radio amateur operators all over the world will be able to receive the tele-metry downlink utilizing RS-style CW telemetry 435.315 MHz using the callsign RS30.

The satellite transmits a cyclic series of messages lasting for 4 minutes including a call signal and TM-data (10 seconds); a voice

message (1 minute); a pause (50 seconds); the first artificial satellite imitated signals (10 seconds); an image (1 minute); with a final pause (50 seconds).

Aerospace Vehicle Laboratory SCC is the primary the satellite control. A similar Satellite Control Center has been established at the Siberian State Aerospace University in Krasnoyarsk to allow students and research engineers can receive and analyze the telemetry in cooperation with the specialists at JSC Academician M.F. Reshetnev Information Satellite Systems center.

Details can be found on-line at:
http://www.npopm.com/?cid=news_ivent&nid=61

[ANS thanks Ralph W0RPK and the Russian Federal Space Agency for the above information]

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SB SAT @ AMSAT $ANS-145.09
ARISS Status Report for the Week of May 19, 2008

AMSAT News Service Bulletin 145.09
>From AMSAT HQ SILVER SPRING, MD.
May 25, 2008
To All RADIO AMATEURS
BID: $ANS-145.09

1. Dutch School Contact

Delta Researchers Schools 2008, Space Expo in Noordwijk, the Netherlands, had an ARISS contact via telebridge station WH6PN in Hawaii on Friday, May 23. Twelve Dutch primary schools which participate in the Delta-project were represented at Space Expo. The project is a cooperation of the Dutch ministry of Education, Culture and Science, the European Space Agency (ESA) and NASA. The schools participating in the project use the themes of space and space exploration to teach science and technology. Three children (ages 7 - 12) from each school were present. The audio for this event was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) servers.

2. Cindy McArthur Receives Silver Snoopy Award

Last week, Teaching From Space Project Lead Cindy McArthur became the recipient of a Silver Snoopy award. Astronaut Barbara Morgan, KD5VNP, presented the award in appreciation for McArthur's work and support of educational activities throughout the STS-118 mission which included an Educational Downlinks videoconference and an ARISS contact.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

99. SEEDS II schedule

Newsgroup: rec.radio.amateur.space
Date: 2008-05-25 05:28:24 UTC
From: zlham <zl3dw@nzart.org.nz>
Message-ID: <4796c8b2-5fe9-4a29-8315-289516718792@t12g2000prg.googlegroups.com>
Source record: 779

Does anyone know the schedule for Seeds II? The one on the website is for Japan only. I want to hear the SSTV and digitalker, but every pass all I hear is just the CW telemetry. I wonder if the bird is programmed for SSTV & digitalk over Japan so we miss out in New Zealand?

Andrew - ZL3DW

100. Re: SEEDS II schedule

Newsgroup: rec.radio.amateur.space
Date: 2008-05-25 13:01:23 UTC
From: Alan WA4SCA <ALANBIDDLE70@YAHOO.COM>
Message-ID: <7noi34pcl5idotdivs707qumfe7nemeu4o@4ax.com>
Source record: 780

Andrew,

They seem to be only using those modes, in general, near the ground
station. However, it has been heard in modes other than CW in the UK.

--
Alan
WA4SCA

101. RS-15 update (missing presumed dead)

Newsgroup: rec.radio.amateur.space
Date: 2008-05-27 18:26:42 UTC
From: Hils <hils@nospam.demon.co.uk>
Message-ID: <1O5dEKziJFPIFwV4@newearth.demon.co.uk>
Source record: 781

Regular readers will know that RS-15's 29.3522MHz beacon has for some years been semi-operational in sunlight. After being active on almost 100% of uneclipsed orbits, it remained silent at the end of its most recent eclipse season on 2008-05-15, suggesting that it may at last have failed completely.

The last time my automatic recording system detected RS-15 was 2008-05-12 0458 (TCA). RS-15's next eclipse season lasts from 2008-06-18 to 2008-08-07. It's possible that the thermal shock might stir it back into some sort of life, but this seems unlikely, and my.

--
Hil

102. WSR-150 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-05-29 12:37:23 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c8c188$c5505b70$4ff11250$@net>
Source record: 782
Cross-posted to: rec.radio.amateur.space,rec.radio.info

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This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-150.S1
WSR 150 Part 1 05/29/2008

AMSAT NEWS SERVICE BULLETIN 150.S1 FROM AMSAT HQ
SILVER SPRING, MD, May 29, 2008
TO ALL RADIO AMATEURS
BID: $ANS-150.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[05292008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear

U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm

[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-150.S2
WSR 150 Part 2 05/29/2008

AMSAT NEWS SERVICE BULLETIN 150.S2 FROM AMSAT HQ
SILVER SPRING, MD, May 29, 2008
TO ALL RADIO AMATEURS
BID: $ANS-150.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844

Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V1/u1
V2/u2
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[05292008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II

Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-150.S3
WSR 150 Part 3 05/29/2008

AMSAT NEWS SERVICE BULLETIN 150.S3 FROM AMSAT HQ
SILVER SPRING, MD, May 29, 2008
TO ALL RADIO AMATEURS
BID: $ANS-150.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-150.S4
WSR 150 Part 4 05/29/2008

AMSAT NEWS SERVICE BULLETIN 150.S4 FROM AMSAT HQ
SILVER SPRING, MD, May 29, 2008
TO ALL RADIO AMATEURS
BID: $ANS-150.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SSB SAT @ AMSAT W8ISS ANS-150.S5
WSR 150 Part 5 05/29/2008

AMSAT NEWS SERVICE BULLETIN 150.S5 FROM AMSAT HQ
SILVER SPRING, MD, May 29, 2008
TO ALL RADIO AMATEURS
BID: $ANS-150.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

103. ANS-152 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-06-01 01:19:39 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001501c8c385$996f6420$cc4e2c60$@net>
Source record: 783
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-152

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT-NA Board of Directors Nomination Announcement
* SatPC32 Version 12.8 Released
* FCAL Mission Patch Winners
* Satellite Shorts From All Over
* Two Opportunities to Fly Your Name and Callsign in Space
* ARISS Status Report for the Week of May 26, 2008

SB SAT @ AMSAT $ANS-152.01
AMSAT-NA Board of Directors Nomination Announcement

AMSAT News Service Bulletin 152.01
>From AMSAT HQ SILVER SPRING, MD.
June 1, 2008
To All RADIO AMATEURS
BID: $ANS-152.01

Nominations are open for the AMSAT-NA Board of Directors (BOD). The nominations must be in writing and received at the AMSAT office by end of business June 15, 2008.

AMSAT-NA member societies or five current individual members may make nominations of fellow members to serve a 2-year term. Three of the seven seats must be filled this year.

The board members whose terms are expiring are:

Tom Clark, K3IO
Lou McFadin, W5DID
Bob McGwier, N4HY

Prospective AMSAT-NA BOD members generally attend two meetings each year, usually during the first and third quarters of the year. Attendance at the meetings is mandatory. Travel expenses

for BOD meetings are paid for by AMSAT-NA.

Nominations must be in writing and mailed to:

AMSAT-NA
Board of Director Nomination
850 Sligo Ave #600
Silver Spring, MD 20910

The nominations with descriptive information about each candidate will be mailed out July 15, 2008. Ballots must be received in Silver Spring,MD by September 15, 2008. Only active members as of July 24, 2008 are eligible to vote.

[ANS thanks AMSAT HQ for the above information]

/EX

SB SAT @ AMSAT $ANS-152.02
SatPC32 Version 12.8 Released

AMSAT News Service Bulletin 152.02
>From AMSAT HQ SILVER SPRING, MD.
June 1, 2008
To All RADIO AMATEURS
BID: $ANS-152.02

Erich Eichmann DK1TB has released SatPC32, version 12.8, a satellite tracking program which now contains improvements for Windows Vista compatibility, CAT control of multiple radios, and CAT control of Icom half-duplex radios.

Erich Eichmann DK1TB has donated SatPC32 to AMSAT, so all proceeds support amateur satellite programs. Please support amateur satellites by registering your copy of SatPC32.

A demo version may be downloaded from the author's web site: http://www.dk1tb.de/indexeng.htm. Some users of the new SatPC32 v12.8 have experienced a few minor problems with this release and Erich is investigating these reports.

Registered SatPC32 users may use their existing registration code to activate the downloaded new version. New users are encouraged to purchase a registration code from AMSAT-NA, AMSAT-DL, or AMSAT-UK. The online store is down at the moment but you may purchase a registration code by calling Martha at the AMSAT office at 888-322-6728. Version 12.8 will not be available on CD until the existing stock of 12.7 CDs is depleted.

Here are the changes listed in the 12.8 "What's New" file:

+ The setup program has been updated to the the latest 32-bit Vista compatible version of Installshield Express.

+ The CAT steering functions of SatPC32 have been expanded to now include the ICOM IC-706MKIIG, IC-7000 and compatible radios.

+ Full duplex satellite operation with 2 separate radios for uplink and downlink has been improved. Numerous devices can be combined, e.g. the Yaesu semi-duplex transceivers with each other or with Icom semi-duplex radios or single band radios or Icom radios with each other.

+ The Vista compatibility has been improved.

+ SatPC32 now includes a simple text editor that can alternatively be used besides Notepad to edit auxiliary files (data files, i.e. Doppler.SQF).

+ Further improvements include operation of narrow FM mode of the IC-910H. The program now shows the file date of the selected Keplerian data file. CAT steering of the FT-736R has been fixed.

[ANS thanks Erich Eichmann, DK1TB for the above information]

/EX

SB SAT @ AMSAT $ANS-152.03
FCAL Mission Patch Winners

AMSAT News Service Bulletin 152.03
>From AMSAT HQ SILVER SPRING, MD.
June 1, 2008
To All RADIO AMATEURS
BID: $ANS-152.03

Ivan Galysh, KD4HBO wrote on behalf of the FCAL satellite mission, "Now that FCAL is down, I went through all the emails sent with FCAL data. I received data from Mike Ruppercht DK3WN, Armando Mercado N8IGJ, Bent Bagger representting AMSAT-OZ, and Edward Chuang BX1AD."

Ivan continued, "All will receive an FCAL mission patch plus a mission coffee mug. One surprise about the mission patch. These are STP mission patches that have flown on the space shuttle when FCAL and ANDE were released. I will include the letter of authentication that indicates these patches flew in space. Thanks for all your help. Hope to do it again soon."

[ANS thanks Ivan, KD4HBO for the above information]

/EX

SB SAT @ AMSAT $ANS-152.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 152.04
>From AMSAT HQ SILVER SPRING, MD.
June 1, 2008
To All RADIO AMATEURS

BID: $ANS-152.04

+ Congratulations are in order for 10 year old Piyumi, VE4WPL
in Winnipeg, Manitoba, Canada for making her first satellite
contact on AO-51. She used an Icom IC-W32A handheld at 5 watts
with an Arrow antenna to make the contact.

+ Patrick WD9EWK/VA7EWK represented AMSAT at the Yavapai Amateur
Radio Club (YARC) and Verde Valley Amateur Radio Club (VVARA)
joint hamfest on Saturday, 31 May 2008. He set up an AMSAT
table at the hamfest and provided on-air demonstrations using
the AO-51 satellite.

+ Allen, N5AFV was also active in promoting amateur radio satellite
activity on the weekend of May 31 - June 1. On May 31 Allen op-
erated via satellite from the second highest point in Texas at
the top of Enchanted Rock. June 1 gave Allen the opportunity
to operate using the Ten Ten International club call sign, W6OI
from 20th Annual Ten Ten Hill Country Picnic. QSL information
for both operations is to N5AFV with an SASE.

+ Richard, N2SPI managed the AMSAT Booth at the 2008 Rochester (NY)
Hamfest this weekend. He was also on the air with live satellite
demos. If you have an opportunity to promote AMSAT at a hamfest
near you contact Martha at AMSAT HQ for materials.

+ Martian weather data from the Canadian Space Agency's weather
station aboard the Mars Phoenix lander can be viewed on your
computer using tool available from http://phoenix.lpl.arizona.edu/.
Mac OSX 10.4.3 (or higher), or Vista is required.
(Via UniverseToday.com).

+ Word has been received from VU2POP that AMSAT-India has completed
construction of the Hamsat-2 transponder built by one of their student
members. They are now working on flight plans for an orbit similar to
to VO-52 and hopefully higher if possible.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-152.05
Two Opportunities to Fly Your Name and Callsign in Space

AMSAT News Service Bulletin 152.05
>From AMSAT HQ SILVER SPRING, MD.
June 1, 2008
To All RADIO AMATEURS
BID: $ANS-152.05

Although not totally amateur satellite related many AMSAT folks
still enjoy all aspects of space exploration so here are a couple
of fun things for you to enjoy, and perhaps involve young folks
also.

Send your name to the moon ...
NASA invites everyone to take advantage of the opportunity to send your name to the Moon on board the Lunar Reconnaissance Orbiter. The LRO mission site has a form to send your name, embedded into a computer chip, into orbit around the moon. The link to sign up is: http://lro.jhuapl.edu/NameToMoon/index.php. More information about the Lunar Reconnaissance Orbiter mission can be found at: http://lunar.gsfc.nasa.gov/moonfacts.html.

Send your name into solar orbit ...
Kepler is NASA's first mission capable of detecting Earth-size and smaller planets in the habitable zone of solar-like stars. Planned to be launched from Kennedy Space Center in February 2009, the spacecraft will be launched into orbit around the Sun. When you submit your name, you may also chose to provide a message of 500 words or less of why you think the mission is important. Your will be stored on a DVD and rocketed into space on board the Kepler spacecraft. The link to sign up is at: http://namesinspace.seti.org/

The deadline to submit your name for the Lunar Reconnaissance Orbiter mission is June 27, 2008; the deadline to submit your name for the Keppler Mission is November 1, 2008.

[ANS thanks NASA, SETI, and UniverseToday for the above information]

/EX

SB SAT @ AMSAT $ANS-152.06
ARISS Status Report for the Week of May 26, 2008

AMSAT News Service Bulletin 152.06
>From AMSAT HQ SILVER SPRING, MD.
June 1, 2008
To All RADIO AMATEURS
BID: $ANS-152.06

1. Delta Researchers School Contact Successful

On Friday, May 23, Delta Researchers Schools 2008 Space Expo in Noordwijk, the Netherlands, experienced an ARISS contact via telebridge station WH6PN in Hawaii. Garrett Reisman, KE5HAE, answered 15 questions posed to him by children from twelve Dutch primary schools. The audio for this event was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) servers. Photos and audio will be posted on the ARISS-Europe Web site when available.

2. ARISS Delegate Receives CQ's Radio Hall of Fame Award

ARISS delegate and mentor Gaston Bertels, ON4WF, was inducted into CQ magazine's Amateur Radio Hall of Fame for making a significant contribution to amateur radio and our planet. This award is given to persons who not only excel in personal performance in amateur radio, but also give back to amateur radio in a significant manner. On May 16, the American Radio Relay League (ARRL) ran a

web story covering this news. See:
http://www.arrl.org/news/stories/2008/05/16/10100/?nc=1

3. ARRL QST Articles on ARISS Activities

The American Radio Relay League (ARRL) June QST published an item under "Media Hits" (page 12) about Yi So-yeon launching to space to perform ARISS ham activities.

Also posted in the June QST is a Field Day multi-page insert. Under ideas for fun things to do on Field Day is a suggestion for hams to listen for general contacts being made from the International Space Station.

4. ARISS International Team Meeting Held

The ARISS monthly meeting was held on Tuesday, May 20. Topics of discussion included the ARISS Face to Face Meeting to be held in Moscow in July and the status of SuitSat-2. Minutes have been posted. See: http://www.rac.ca/ariss/arisstel2008-05-20.htm

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

104. Re: Is amat satcoms dead?

Newsgroup: rec.radio.amateur.space
Date: 2008-06-05 00:14:27 UTC
From: nospam@w6yx.stanford.edu
Message-ID: <g27b53$178$1@news.stanford.edu>
Source record: 784

In article <KJydnQ1BRPWHKarVnZ2dnUVZ_vKdnZ2d@comcast.com> No Spam <no@spam.com> writes:

>Has anybody thought about contacting Dish or it's insurance company about
>the bird they abandoned due to a lifter failure?

What would one do with it? It's receiver is in a frequency band that we cannot use. It's transmitters are in a frequency band that we cannot use. The solar panels are probably not deployed or facing the sun.

In fact, it probably is not even oriented so the antennas point at earth, since it is not in a stable geosync orbit.

Alan

105. Radio Meteor Obs. Bull. May 2008

Newsgroup: rec.radio.amateur.space
Date: 2008-06-07 19:06:32 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <t0nl44h3t7dri03gthlfgi75b3tiu1c8oa@4ax.com>
Source record: 785
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 178 of May 2008 (76 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0805.txt

More information and the visual presentation of the hourly forward scatter
counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

106. WSR-157 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-06-07 20:30:46 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c8c8dd$741797d0$5c46c770$@net>
Source record: 786
Cross-posted to: rec.radio.amateur.space,rec.radio.info

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This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-157.S1
WSR 157 Part 1 06/05/2008

AMSAT NEWS SERVICE BULLETIN 157.S1 FROM AMSAT HQ
SILVER SPRING, MD, June 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-157.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06052008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Space Transportation System mission 124 crew:
Commander: Mark Kelly
Pilot : Ken Ham
Mission Specialist: Karen Nyeberg
Ron Garan
Mike Fossum
Akihiko Hoshide KE5DNI
Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM

Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-157.S2
WSR 157 Part 2 06/05/2008

AMSAT NEWS SERVICE BULLETIN 157.S2 FROM AMSAT HQ
SILVER SPRING, MD, June 05, 2008
TO ALL RADIO AMATEURS
BID: $ANS-157.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1

Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655

Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP

L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06052008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)

400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Space Transportation System mission 124 crew:
Commander: Mark Kelly
Pilot : Ken Ham
Mission Specialist: Karen Nyeberg
Ron Garan
Mike Fossum
Akihiko Hoshide KE5DNI
Garrett Reisman KE5HAE

Available Modes and Frequencies:
Digital/APRS:

Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[04242008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-157.S3
WSR 157 Part 3 06/06/2008

AMSAT NEWS SERVICE BULLETIN 157.S3 FROM AMSAT HQ
SILVER SPRING, MD, June 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-157.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]

=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:

http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575

Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM

[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-157.S4
WSR 157 Part 4 06/05/2008

AMSAT NEWS SERVICE BULLETIN 157.S4 FROM AMSAT HQ
SILVER SPRING, MD, June 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-157.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:

http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SSB SAT @ AMSAT W8ISS ANS-157.S5
WSR 157 Part 5 06/05/2008

AMSAT NEWS SERVICE BULLETIN 157.S5 FROM AMSAT HQ
SILVER SPRING, MD, June 05, 2008
TO ALL RADIO AMATEURS
BID: $ANS-157.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-

mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

107. ANS-159 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-06-08 21:14:08 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c8c9ac$ae81f710$0b85e530$@net>
Source record: 787
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-159

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT-NA Board of Directors Nomination Announcement
* 9 Cubesats offered free launch with ESA
* News from the 6/3/08 Executive Teleconference
* Satellite Shorts From All Over
* Direct Shorts
* ARISS Status Report for the Week of May 26, 2008

SB SAT @ AMSAT $ANS-159.01
AMSAT-NA Board of Directors Nomination Announcement

AMSAT News Service Bulletin 159.01
>From AMSAT HQ SILVER SPRING, MD.
June 8, 2008
To All RADIO AMATEURS
BID: $ANS-159.01

Nominations are open for the AMSAT-NA Board of Directors (BOD). The nominations must be in writing and received at the AMSAT office by end of business June 15, 2008.

AMSAT-NA member societies or five current individual members may make nominations of fellow members to serve a 2-year term. Three of the seven seats must be filled this year.

The board members whose terms are expiring are:

Tom Clark, K3IO
Lou McFadin, W5DID
Bob McGwier, N4HY

Prospective AMSAT-NA BOD members generally attend two meetings each year, usually during the first and third quarters of the year. Attendance at the meetings is mandatory. Travel expenses

for BOD meetings are paid for by AMSAT-NA.

Nominations must be in writing and mailed to:

AMSAT-NA
Board of Director Nomination
850 Sligo Ave #600
Silver Spring, MD 20910

The nominations with descriptive information about each candidate
will be mailed out July 15, 2008. Ballots must be received in
Silver Spring,MD by September 15, 2008. Only active members as
of July 24, 2008 are eligible to vote.

[ANS thanks AMSAT HQ for the above information]

/EX

SB SAT @ AMSAT $ANS-159.02
9 Cubesats offered free launch with ESA

AMSAT News Service Bulletin 159.02
>From AMSAT HQ SILVER SPRING, MD.
June 8, 2008
To All RADIO AMATEURS
BID: $ANS-159.02

Cubesats built by students from universities in Poland Spain Italy
Switzerland Romania France and Belgium have been selected for a free
ride to low earth orbit. The launch is scheduled on the Vega maiden
flight from Kourou at the end 2008 / early 2009 TBC.
One Belgium cubesat proposes to use D-Star as a communications protocol

http://www.esa.int/esaED/SEM2BPUG3HF_index_0.html

[ANS thanks David, G0MRF, for the above information]

/EX

SB SAT @ AMSAT $ANS-159.03
News from the 6/3/08 Executive Teleconference

AMSAT News Service Bulletin 159.03
>From AMSAT HQ SILVER SPRING, MD.
June 8, 2008
To All RADIO AMATEURS
BID: $ANS-159.03

The AMSAT Store will be re-opening soon. It has been moved to the new
AMSAT server.

There will be a series of ARISS/NASA technical meetings in Russia during
much of the month of July this year.

There will be a technical meeting in Phoenix about SuitSat-2 hardware the weekend of 14 June. We will be updating the specification and determining what hardware can be developed, tested and delivered to Russia by the end of the year.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-159.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 159.04
>From AMSAT HQ SILVER SPRING, MD.
June 8, 2008
To All RADIO AMATEURS
BID: $ANS-159.04

The 2008 Dayton Forum presentation of Rick Hambly, W2GPS AMSAT President is now available for viewing online at
mms://media.wmfd.com/amsat/W2GPS_2008_forum.wmv

Also available is Bob McGwier's 2008 AMSAT Engineering update
mms://media.wmfd.com/amsat/EngMovie08.wmv

The other 2008 Forum presentations will also be available soon. There will be an ANS announcement. Thanks to Rob and Gunther Meisse and WMFD for hosting the video.

Note: The following satellites have been dropped from the AMSAT Keplerian Data List:

UARS Cat # 21701
OO-38 Cat # 26063
MO-46 Cat # 26548
UWE-1 Cat # 28892
LIBERTAD-1 Cat # 31129

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-159.05
Direct Shorts

AMSAT News Service Bulletin 159.05
>From AMSAT HQ SILVER SPRING, MD.
June 8, 2008
To All RADIO AMATEURS
BID: $ANS-159.05

+ Technical papers are solicited for presentation at the 27th Annual ARRL and TAPR Digital Communications Conference to be held September 26-28, 2008 in Chicago, Illinois. The submission deadline is July 31, 2008. Please send papers to: Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111.

+ Stefan, VE4NSA says his 1:1 scale model kit of the Delfi-C3 satellite is in the prototype stage. A photo of the project can be found at http://www.wincube.ca/Delfi.html. This model will be available as pdf files for you to print (and cut and glue) in the next few weeks from the Delfi-C3 website. Stefan invites radio amateurs to also see his released AO-51 scale model at http://www.msig.ca/AO-51.html.

+ This past week the Cute-1.7 + APD II cubesat team ran a 24hour test of the APD sensor. FM telemetry packets were transmitted on 437.475 MHz. Please forward any received telemetry to Hiroki Ashida via email to hiroki@lss.mes.titech.ac.jp.

+ Yuta Araki, JQ1YGV wrote from Nihon University to inform you of the update of the analysis software for the SEEDS cubesat. The new version of the analysis software is "Downlink Code for Distribution Ver.2.0.3" at:
http://cubesat.aero.cst.nihon-u.ac.jp/english/download_e.html

[ANS thanks for the above information]

/EX

SB SAT @ AMSAT $ANS-159.06
ARISS Status Report for the Week of June 2nd, 2008

AMSAT News Service Bulletin 159.06
>From AMSAT HQ SILVER SPRING, MD.
June 8, 2008
To All RADIO AMATEURS
BID: $ANS-159.06

Amateur Radio on the International Space Station (ARISS) Status Report
June 2, 2008

1. School Contact Status

Planning continues for Amateur Radio on the International Space Station (ARISS) contacts; however, the level of school contacts will drop temporarily due to crew time constraints.

2. NASM Space Day Article

Radio Amateur Satellite Corporation (AMSAT) and Amateur Radio on the International Space Station (ARISS) members participated in the National Air and Space Museum celebration on Space Day. The event was covered in a local paper. To view the article in the Southwester (page 11), go to:
http://swdc.org/news/Southwester_JUNE_2008.pdf

3. Terrestrial School Contact Successful

On Tuesday, May 27, European Space Agency (ESA) astronaut Roberto Vittori, IZ6ERU, spoke by telephone with students from primary schools San Giuseppe and De Gasperi in Italy. He answered 20 questions posed to him by the students. Approximately 400 people were present during the hour long question and answer session. Newspapers covered the event.

These schools plan to participate in an Amateur Radio on the International Space Station (ARISS) contact in the fall. Photos and detailed information on this activity have been posted to the ARISS-Europe Web site. See: http://www.ariss-eu.org/2008_05_27.htm

4. ESA Article on DRS Contact

An Amateur Radio on the International Space Station (ARISS) contact took place with Delta Researcher Schools (DRS) on Friday, May 23 at Space Expo, Noordwijk, the Netherlands. The European Space Agency (ESA) posted a write-up on this educational event to its Web site. See: http://www.esa.int/esaHS/SEMEZ8NKRGF_education_0.html

5. Astronaut Training Status

Mike Fincke, KE5AIT, participated in an Amateur Radio on the International Space Station (ARISS) training session on Tuesday, May 27. Fincke is scheduled to fly in October 2008 as the commander of Expedition 18.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

108. WSR-164 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-06-12 12:13:20 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c8cc85$d0c6b820$72542860$@net>
Source record: 788
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-164.S1
WSR 164 Part 1 06/12/2008

AMSAT NEWS SERVICE BULLETIN 164.S1 FROM AMSAT HQ
SILVER SPRING, MD, June 12, 2008
TO ALL RADIO AMATEURS
BID: $ANS-164.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06122008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-164.S2
WSR 164 Part 2 06/12/2008

AMSAT NEWS SERVICE BULLETIN 164.S2 FROM AMSAT HQ
SILVER SPRING, MD, June 12, 2008
TO ALL RADIO AMATEURS
BID: $ANS-164.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895

Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06122008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:

Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11

Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-164.S3
WSR 164 Part 3 06/12/2008

AMSAT NEWS SERVICE BULLETIN 164.S3 FROM AMSAT HQ
SILVER SPRING, MD, June 12, 2008
TO ALL RADIO AMATEURS
BID: $ANS-164.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====

UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480

Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

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SB SAT @ AMSAT W8ISS ANS-164.S4
WSR 164 Part 4 06/12/2008

AMSAT NEWS SERVICE BULLETIN 164.S4 FROM AMSAT HQ
SILVER SPRING, MD, June 12, 2008
TO ALL RADIO AMATEURS
BID: $ANS-164.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-164.S5
WSR 164 Part 5 06/12/2008

AMSAT NEWS SERVICE BULLETIN 164.S5 FROM AMSAT HQ
SILVER SPRING, MD, June 12, 2008
TO ALL RADIO AMATEURS

BID: $ANS-164.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)

* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

109. AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-06-15 01:30:43 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001d01c8ce87$8e3146c0$aa93d440$@net>
Source record: 789
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-166

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

In this edition:

* 2008 AMSAT North America Space Symposium
* New AMSAT Videos available
* PreSat and NanoSail-D CubeSats Launch on June 23
* AO-51 Operating Mode Announcement for Field Day
* CUTE-1.7 + APD-II Satellite Camera Activated
* AO-16 Operations Update
* ARISS Status Report for the Week of June 9, 2008

SB SAT @ AMSAT $ANS-166.01
2008 AMSAT North America Space Symposium

AMSAT News Service Bulletin 166.01
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.01

2008 AMSAT North America Space Symposium
24-26 October 2008, Atlanta, Georgia Call for Papers:

This is the first call for papers for the 2008 AMSAT Space Symposium and Annual Meeting to be held October 24-26, 2008 in Atlanta, Georgia.

Proposals for papers, symposium presentations, and poster presentations are invited on any topic of interest to the amateur satellite program. An emphasis for this year is an

educational outreach to middle and high school students.
Another topic if interest is using amateur satellite
tracking systems to monitor deep space network objects.

In particular, papers on the following topics are solicited:
+ Students & Education
+ ARISS
+ AO-51
+ P3E
+ Eagle
+ Deep Space Network monitoring
+ Any additional satellite-related topics.

We request a one-page abstract as soon as possible. Camera
ready copy on paper or in electronic form will be due by
September 1, 2008 for inclusion in the printed symposium
proceedings. Papers received after this date may not be
included in the printed proceedings.

Abstracts and papers should be sent to n8fgv@amsat.org

[ANS thanks Robin, AA4RC and the 2008 Symposium Committee
for the above information]

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SB SAT @ AMSAT $ANS-166.02
New AMSAT Videos available

AMSAT News Service Bulletin 166.02
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.02

We recorded videos of an AO-51 pass and of all the AMSAT Forum
presentations at Dayton 2008. You can find out the latest on
the current satellite projects, AO-51, AO-16, AMSAT Operations,
ARISS and the ACP satellite and ground station progress. Barry,
WD4ASW moderated the Forum.

Thanks to Steve Belter, N9IP for doing the recordings and Mike
Young, WB8CXO for the video equipment and converting the tapes
to this format. Thanks to Gunther and Rob Meisse for hosting the
videos at the WMFD site.

The following videos are clickable if you have Windows Media
Player (or equivalent) installed on your computer. The URLs
can also be pasted into other compatible viewers.

Operating AO-51 Video
Keith, W5IU doing the demonstration during Dayton 2008
mms://media.wmfd.com/amsat/W5IU_AO51_Dayton_Demo.wmv

Videos of 2008 AMSAT Forum at Dayton

Rick, W2GPS AMSAT, P3E, Eagle, SuitSat-2 Update
mms://media.wmfd.com/amsat/W2GPS_2008_forum.wmv

Gould, WA4SXM Operations and AO-51 UpdateN2MJI
mms://media.wmfd.com/amsat/WA4SXM_2008_forum.wmv

Mark, N8MH AO-16 Update
mms://media.wmfd.com/amsat/N8MH_2008_forum.wmv

Michelle, W5NYV ACP Ground Unit
mms://media.wmfd.com/amsat/W5NYV_2008_forum.wmv

Matt, N2MJI ACP Satellite Unit
mms://media.wmfd.com/amsat/W2GPS_2008_forum.wmv

Tony, VK5ZAI ARISS Update
mms://media.wmfd.com/amsat/VK5ZAI_2008_forum.wmv

[ANS thanks Gould, WA4SXM for the above information]

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SB SAT @ AMSAT $ANS-166.03
PreSat and NanoSail-D CubeSats Launch on June 23

AMSAT News Service Bulletin 166.03
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.03

Santa Clara University students invite amateur radio operators worldwide to participate with them by receiving beacon signals from PreSat and NanoSail-D, two pioneering cubesat missions that will launch from the Reagan Test Site (Omelek Island, Kwajalein Atoll, Republic of Marshall Islands) on June 23, 2008 at about 7:00 pm PDT.

Both spacecraft will go into Low Earth Orbit as secondary payloads aboard a SpaceX Falcon-1 launch vehicle into a 685x330 km, 9 degree inclination orbit.

PreSat is a 10 x 10 x 30 cm. spacecraft, operating at 437.318 MHz FM, will send an AX.25 packet every 5 seconds. The mission will evaluate the performance of a generic biofluidic sample management and handling system for future advanced in situ spaceborne biology experiments.

NanoSail-D is a 10 x 10x 30 cm. spacecraft, operating at 437.269 MHz FM, sending an AX.25 packet every 10 seconds, will deploy a solar sail that also will be used as a drag sail to demonstrate orbital debris mitigation technology.

Amateur radio operators are encouraged to submit received beacon
packets through the mission websites in order to receive a web-based
QSL card:
PreSat - http://www.presat.org
NanoSail-D - http://www.nanosaild.org

[ANS thanks Mike Miller, KE7EGC for the above information]

/EX

SB SAT @ AMSAT $ANS-166.04
AO-51 Operating Mode Announcement for Field Day

AMSAT News Service Bulletin 166.04
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.04

The AO-51 Operations Team says that during the week of June 22
to June 29 the satellite will be in the Field Day configuaration.
The early start to the Field Day configuration will allow you to
test your station prior to the event.

Field Day is June 27 and 28. Please be courteous and
remember both AMSAT and ARRL rules only allow ONE QSO
per repeater during the contest.

FM Repeater, V/U
Uplink: 145.920 MHz FM, NO PL Tone
Downlink: 435.300 MHz FM

FM Repeater, L/U
Uplink: 1268.700 MHz FM, NO PL Tone
Downlink: 435.150 MHz FM

All the details of AMSAT Field Day operation can be found on-line
at: http://www.amsat.org/amsat-new/awards/amsatfd.php.

Refer to the ARRL Web Page for general Field Day operations.

[ANS thanks Drew, KO4MA and the AO-51 Operations Team for the
above information]

/EX

SB SAT @ AMSAT $ANS-166.05
CUTE-1.7 + APD-II Satellite Camera Activated

AMSAT News Service Bulletin 166.05
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.05

Earth photos taken by the CUTE-1.7 + APD-II camera were successfully
received at the ground station. See:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/080601_Picture_180degRotated.jp
g

JA1GDE created a diagram showing the area captured in the photograph:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/080601_Picture_JA1GDE.jpg

Additional photos from the satellite camera can be seen at:
http://www.ne.jp/asahi/hamradio/je9pel/cut17apd.htm#bottom

[ANS thanks Mineo, JE9PEL for the above information]

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SB SAT @ AMSAT $ANS-166.06
AO-16 Operations Update

AMSAT News Service Bulletin 166.06
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.06

Drew KO4MA, AMSAT-NA Vice-President of Operations gave an update of
AO-16's on-going malfunctions and troubleshooting.

Drew reported, "AO-16 continues to spontaneously shut off. We suspect
it is a watchdog timer that is malfunctioning, and that it is tempera-
ture related." The resets on the satellite began shortly after AO-16
re-entered periods of eclipses after a long period of full sun.

Mark, N8MH, and Drew have, at various times, re-commanded the bird on.
It will stay on for anywhere from just a few seconds to a few minutes.
They also experimented with doing the reset operation automatically,
with not much success.

Drew summarizes, "The current plan is to wait a little bit until the
eclipses start getting shorter, the overall temperature of the satellite
rises some, and see if the frequency of the resets goes down enough to
make some sort of day-to-day operation feasible again."

[ANS thanks Drew, KO4MA for the above information]

/EX

SB SAT @ AMSAT $ANS-166.07
ARISS Status Report for the Week of June 9, 2008

AMSAT News Service Bulletin 166.07
>From AMSAT HQ SILVER SPRING, MD.
June 15, 2008
To All RADIO AMATEURS
BID: $ANS-166.07

1. School Contact Status

Planning continues for ARISS contacts; however, the level of school contacts will drop temporarily due to crew time constraints.

On Friday, June 6, a successful ARISS contact took place between Kursk State University in Russia and cosmonauts Sergei Volkov, RU3DIS, and Oleg Kononenko, RN3DX, aboard the ISS. Over three hundred students attended the event.

2. ARRL Article on STS-124

The American Radio Relay League (ARRL) posted a story to its Web site on the STS-124 mission. The article covers ISS flight engineer Greg Chamitoff, KD5PKZ, and mission specialist Akihiko Hoshide, KE5DNI, who flew to the ISS on shuttle Discovery. It also includes information on the new JAXA Kibo laboratory. "Hams Head into Space" may be found at: http://www.arrl.org/news/stories/2008/06/03/10139/?nc=1

The article was also published in the ARRL Letter.
See: http://www.arrl.org/arrlletter/08/0606/

3. ARISS-Europe Posts DRS Article

An ARISS contact took place with Delta Researcher Schools (DRS) on Friday, May 23 at Space Expo, Noordwijk, the Netherlands. ARISS-Europe has posted a summary of the contact with photos on its Web site.
See: http://www.ariss-eu.org/2008_06_06.htm

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

110. diplexer for 2m/70cm

Newsgroup: rec.radio.amateur.space
Date: 2008-06-15 17:16:26 UTC
From: Stephen Atkins <ve6cpu@rac.ca>
Message-ID: <K7c5k.7327$kx.3528@pd7urf3no>
Source record: 790

Hello everyone. I was search around a couple of days ago and came across how to build a diplexer for 2m/70 using coils wrapped using a pencil. For the life of me I can't find that page again and I don't see it in my history. I've loaded every page for the last 3 days and didn't see it. Any way I don't really want to mess around with smd parts so the micro diplexer isn't the one I want. Does anyone know where I might find this page again.

Thanks
Stephen

111. Help us save usenet news for Time-Warner customers

Newsgroup: rec.radio.amateur.space
Date: 2008-06-16 22:59:52 UTC
From: Usenet user <usenet_user@rr.com>
Message-ID: <4856f120$0$4268$4c368faf@roadrunner.com>
Source record: 791

Time-Warner corporate is dropping usenet news as of June 23, 2008.

Please help by asking them to keep it. The person to call works for the TW president:

Barbara Burroughs
phone 203-351-2281

email: barbara.burroughs@twcable.com

112. shoes Free 3.0 shoes paypal payment $28/pairs cnbbiz2008@hotmail.com (http://photo.163.com/photos/haoxie0594/150554540/)

Newsgroup: rec.radio.amateur.space
Date: 2008-06-19 07:33:20 UTC
From: michael <cnbbiz033@gmail.com>
Message-ID: <c9cf98fd-aec5-471d-9a21-c9abd1c86657@d19g2000prm.googlegroups.com>
Source record: 792

Please chat with me by cnbbiz2008@hotmail.com to get the price and
more photos, we take paypal payment $28/pairs as payment. please see
the photo album below for our product list.

shoes evisu shoes paypal payment $28/pairs cnbbiz2008@hotmail.com
(http://photo.163.com/photos/tl668899/131380486/)

shoes Free 3.0 shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/haoxie0594/150554540/
)

shoes Free 4.0 shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/haoxie0594/150554540/
)

shoes Free 5.0 shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/songwenqing2229693/137792584/
)

shoes Free 7.0 shoes paypal payment $28/pairs
cnbbiz2008@hotmail.com (http://photo.163.com/photos/songwenqing2229693/137803633/)

Football shoes paypal payment $28/pairs cnbbiz2008@hotmail.com
(http://photo.163.com/photos/songwenqing2229693/137738225/)

shoes HOGAN shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/llz800728111/136955108/
)

shoes Ice cream shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/llz800728111/130777835/
)

shoes levis shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/llz800728111/143765610/)

shoes locaste shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/llz800728111/151705789/)

shoes k- swiss shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/haoxie0594/146029991/)

shoes lv shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/llz800728111/153471940/
)

shoes Air Stabb 89 shoes paypal payment $28/pairs wholesaler
cnbbiz2008@hotmail.com (http://photo.163.com/photos/huayuexiehang/
)

113. WSR-171 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-06-20 16:29:51 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301c8d2f3$080684f0$18138ed0$@net>
Source record: 793
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-171.S1
WSR 171 Part 1 06/19/2008

AMSAT NEWS SERVICE BULLETIN 171.S1 FROM AMSAT HQ
SILVER SPRING, MD, June 19 2008
TO ALL RADIO AMATEURS
BID: $ANS-171.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
S/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06192008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear

U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm

[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-171.S2
WSR 171 Part 2 06/19/2008

AMSAT NEWS SERVICE BULLETIN 171.S2 FROM AMSAT HQ
SILVER SPRING, MD, June 19 2008
TO ALL RADIO AMATEURS
BID: $ANS-171.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844

Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
S/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06192008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II

Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-171.S3
WSR 171 Part 3 06/19/2008

AMSAT NEWS SERVICE BULLETIN 171.S3 FROM AMSAT HQ
SILVER SPRING, MD, June 19 2008
TO ALL RADIO AMATEURS
BID: $ANS-171.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-171.S4
WSR 171 Part 4 06/19/2008

AMSAT NEWS SERVICE BULLETIN 171.S4 FROM AMSAT HQ
SILVER SPRING, MD, June 19 2008
TO ALL RADIO AMATEURS
BID: $ANS-171.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
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SB SAT @ AMSAT W8ISS ANS-171.S5
WSR 171 Part 5 06/19/2008

AMSAT NEWS SERVICE BULLETIN 171.S5 FROM AMSAT HQ
SILVER SPRING, MD, June 19 2008
TO ALL RADIO AMATEURS
BID: $ANS-171.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
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114. ANS-174 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-06-23 01:04:13 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c8d4cd$36b6e840$a424b8c0$@net>
Source record: 794
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-174

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Receives CFC Certification for 2008
* 9 Cubesats on Maiden Vega Launch
* Nominees for AMSAT Board of Directors
* Call for Papers--2008 ARRL/TAPR Digital Communications Conference
* AMSAT Award Recipients
* ARISS Status - 16 June 2008

SB SAT @ AMSAT $ANS-174.01
AMSAT Receives CFC Certification for 2008

AMSAT News Service Bulletin 174.01
From AMSAT HQ SILVER SPRING, MD.
June 22, 2008
To All RADIO AMATEURS
BID: $ANS-174.01

On June 13, 2008 The Office of Combined Federal Campaign Operations issued the final draft of the listings for independent organizations that have been approved for participation in the 2008 CFC. The Radio Amateur Satellite Corporation (AMSAT) was again included in the approvals.

The CFC, or Combined Federal Campaign, is the U.S. Government equivalent Of the United Way in the private sector. The campaign affords all US Government employees the opportunity to make donations from their regular paychecks to CFC approved Charities.

AMSAT has again successfully applied to CFC for that status and is grateful for the approval. This stamp of approval means that AMSAT has met the strict standards set by the U.S. Office of Personnel Management (OPM) assuring donors that AMSAT's programs of work and financial operational standards meet the CFC requirements.

Those AMSAT supporters who wish to make payroll contributions should select the Radio Amateur satellite Corporation (AMSAT) during their campaign this coming fall. The AMSAT CFC Charity number is 10158. Payroll deduction is a simple, convenient way to support AMSAT.

Gunther Meisse W8GSM
Treasurer, AMSAT North America

[ANS thanks Bunther, W8GSM, for the above information]

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SB SAT @ AMSAT $ANS-174.02
9 Cubesats on Maiden Vega Launch

AMSAT News Service Bulletin 174.02
From AMSAT HQ SILVER SPRING, MD.
June 22, 2008
To All RADIO AMATEURS
BID: $ANS-174.02

Cubesats built by students from universities in Poland Spain Italy Switzerland Romania France and Belgium have been selected for a free ride to low
earth orbit. The launch is scheduled on the Vega maiden flight from Kourou at
the end 2008 / early 2009.

One Belgium cubesat proposes to use D-Star as a communications protocol

[ANS thanks David, G0RMF, for the above information]

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SB SAT @ AMSAT $ANS-174.03
Nominees for AMSAT Board of Directors

AMSAT News Service Bulletin 174.03
From AMSAT HQ SILVER SPRING, MD.
June 22, 2008
To All RADIO AMATEURS
BID: $ANS-174.03

Nominations for the 2008 AMSAT Board of Directors have closed. The list of qualified candidates is:

Tom Clark K3IO
Lou McFadin W5DID
Bill Ress N6GHZ
Gould Smith WA4SXM

Three Directors' terms are up this year. Directors serve a two year term. Ballots will be in the mail by July 15th and must be received in Silver Spring no later than the close of business on September 15th.

[ANS thanks Martha for the above information]

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SB SAT @ AMSAT $ANS-174.04
Call for Papers--2008 ARRL/TAPR Digital Communications Conference

AMSAT News Service Bulletin 174.04
From AMSAT HQ SILVER SPRING, MD.
June 22, 2008
To All RADIO AMATEURS
BID: $ANS-174.04

Technical papers are solicited for presentation at the 27th Annual ARRL and TAPR Digital Communications Conference to be held September 26-28, 2008 in Chicago, Illinois. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2008. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@arrl.org

Papers will be published exactly as submitted and authors will retain all rights.

[ANS thanks Steve, WB8IMY, for the above information]

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SB SAT @ AMSAT $ANS-174.05
AMSAT Award Recipients

AMSAT News Service Bulletin 174.05
From AMSAT HQ SILVER SPRING, MD.
June 22, 2008
To All RADIO AMATEURS
BID: $ANS-174.05

We would like to welcome the following to the satellite community. They have made their first satellite contact and are now members of the AMSAT Satellite
Communicators Club.

Robert Netzband, NA2H
Piyumi Perera, VE4WPL
Keith Cutter, KD7GOP

The following have earned the AMSAT Satellite Communications Achievement Award

Dimitrios Pallis, SW1JGW #464
Rob Rousseau, KI4BKE #465
Rafael Valdez, Jr., XE2RV #466

The following have earned the AMSAT Robert Barbee, Jr., W4AMI Satellite Communication Achievement Award

Rafael Valdez, Jr., XE2RV #51

To see all the awards visit http://www.amsat.org or http://www.amsatnet.com

[ANS thanks Bruce, KK5DO, for the above information]

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SB SAT @ AMSAT $ANS-174.06
ARISS Status -- 16 June 2008

AMSAT News Service Bulletin 174.06
From AMSAT HQ SILVER SPRING, MD.
June 22, 2008
To All RADIO AMATEURS
BID: $ANS-174.06

1. Upcoming School Contact

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with Robinson Elementary School in Robinson, Texas on Wednesday, June
25 at 15:45 UTC, via telebridge station WH6PN in Hawaii. This is the first ARISS contact to be held with astronaut Greg Chamitoff, KD5PKZ. Approximately
300 second and third graders are enrolled at the school.

2. ARRL PR Campaign Includes ARISS

On June 10, the American Radio Relay League (ARRL) ran an article about its new
PR campaign called "We Do That." A portion of a new brochure and accompanying
Web material cover Amateur Radio on the International Space Station (ARISS). There is also an audio sample of an ARISS contact on the Web site. For more information, go to: http://www.arrl.org/news/stories/2008/06/10/10151/?nc=1

The story also ran in the ARRL Letter. See: http://www.arrl.org/arrlletter/08/0613/

3. ARISS Face to Face Meeting

Preparations continue for the Amateur Radio on the International Space Station
(ARISS) Face to Face Meeting. The conference will be held on July 17-18. It

will be preceded by an Amateur Radio Working Group (ARWG) meeting on July 14-16
which will be attended by representatives from the international partner space
agencies. Both meetings will be held in Moscow, Russia.

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

115. WSR-178 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-06-26 03:15:59 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002601c8d73a$e6d25c40$b47714c0$@net>
Source record: 795
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-178.S1
WSR 178 Part 1 06/26/2008

AMSAT NEWS SERVICE BULLETIN 178.S1 FROM AMSAT HQ
SILVER SPRING, MD, June 26 2008
TO ALL RADIO AMATEURS
BID: $ANS-178.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
L/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06262008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear

U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm

[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-178.S2
WSR 178 Part 2 06/26/2008

AMSAT NEWS SERVICE BULLETIN 178.S2 FROM AMSAT HQ
SILVER SPRING, MD, June 26 2008
TO ALL RADIO AMATEURS
BID: $ANS-178.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844

Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
L/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[06262008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II

Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-178.S3
WSR 178 Part 3 06/26/2008

AMSAT NEWS SERVICE BULLETIN 178.S3 FROM AMSAT HQ
SILVER SPRING, MD, June 26 2008
TO ALL RADIO AMATEURS
BID: $ANS-178.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-178.S3
WSR 178 Part 3 06/26/2008

AMSAT NEWS SERVICE BULLETIN 178.S3 FROM AMSAT HQ
SILVER SPRING, MD, June 26 2008
TO ALL RADIO AMATEURS
BID: $ANS-178.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====

UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480

Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-178.S5
WSR 178 Part 5 06/26/2008

AMSAT NEWS SERVICE BULLETIN 178.S5 FROM AMSAT HQ
SILVER SPRING, MD, June 26 2008
TO ALL RADIO AMATEURS
BID: $ANS-178.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

116. ANS-180 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-06-29 14:09:24 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c8d9f1$ab30b1a0$019214e0$@net>
Source record: 796
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-180

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** See The AMSAT Website for Latest Info on This ***
*** Annual Meeting of Our Group ***
****

In this edition:

* ARRL Clarifies ISS Satellite Category
* Final Call for Papers - AMSAT UK Colloquium
* IARU-News Release
* HAM RADIO IN SPACE: CELEBRATING 45 YEARS OF WOMEN IN SPACE
* Stanford Cubesat Ground Station Survey
* Upcoming ISS Scheduled Contacts
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-180.01
ARRL Clarifies ISS Satellite Category

AMSAT News Service Bulletin 180.01
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.01

Word was received this week from Sean Kutzko, KX9X, the Contest Branch Manager at the ARRL clarifying the rules in regard to the ISS amateur radio operations.

Sean wrote, "At the request of several in the satellite community, I spent some time last evening reviewing data presented to me concerning my ruling that the ISS would not count for satellite QSO credit during Field Day."

"After reviewing the data last evening, I have come to the conclusion
that my first ruling was incorrect; The ISS is indeed eligible for
satellite QSO credit during Field Day."

I hope everybody had fun this weekend.

[ANS thanks Sean KX9X at the ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-180.02
Final Call for Papers - AMSAT UK Colloquium

AMSAT News Service Bulletin 180.02
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.02

This is the final call for speakers/papers for the 23rd Amsat-UK
Colloquium which will be held at Surrey University, Guildford, Surrey,
U.K., from Friday 25th July to Sunday 27th July 2008.

Details of this and previous events can be found at:
http://www.uk.amsat.org.

Amsat-UK invite speakers, about amateur radio space and associated
activities, for this event. They are also invited to submit papers
for the "Proceedings" document which will be published at the same
time but printed papers are not mandatory. We normally prefer
authors to present talks themselves rather than having someone else
give them in the authors' absence. We also welcome
"unpresented" papers for the Proceedings document.

Offers of talks should be submitted as soon as possible; the final
date for full documents to be received is July 16th 2008 in order
that the "Proceedings" document be available to participants.

Submissions should be sent *ONLY* to G4DPZ, via the following routes:

Internet e-mail: david dot johnson at blackepper do co dot uk

SnailMail: QTHR from http://www.qrz.com

73

Dave
G4DPZ

[ANS thanks Dave, G4DPZ for the above information]

/EX

SB SAT @ AMSAT $ANS-180.03
IARU-News Release

AMSAT News Service Bulletin 180.03
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.03

26 June 2008

For immediate release

IARU Officer Nominations Agreed for 2009-2014 Term

The Administrative Council (AC) of the International Amateur Radio Union (IARU) held its annual meeting on 24-25 June 2008 in Konstanz, Germany and took the following actions.

1. The consultative process leading to nominations for IARU President and Vice President for the five-year term beginning on 9 May 2009 was completed between the AC and the American Radio Relay League, the IARU member-society that serves as the International Secretariat. IARU President Larry Price, W4RA had announced in 2007 that he was not available to serve an additional term. The AC agreed that Vice President Tim Ellam, VE6SH and Region 1 President Ole Garpestad, LA2RR are suitably qualified to serve as IARU President and Vice President, respectively. Their nominations will be offered to the member-societies for ratification.

2. A comprehensive review and update of the working document that defines the additional spectrum requirements of the amateur and amateur-satellite services was conducted. Requests from the amateur satellite community for support of additional allocations were considered and referred to the IARU Satellite Adviser for additional information.

3. The IARU International Coordinator for Emergency Communications, Hans Zimmermann, HB9AQS/F5VKP, presented his report in person. He noted the outstanding performance of radio amateurs in China who responded to the recent tragic earthquake emergency.

4. Reports of the other IARU international coordinators and advisers were received. They are International Beacon Project Coordinator Peter Jennings, AB6WM/VE3SUN; Satellite Adviser Hans van de Groenendaal, ZS6AKV; EMC Adviser Christian Verholt, OZ8CY; and Interim Monitoring System International Coordinator Chuck Skolaut, K0BOG.

5. An additional progress report was received from an ad hoc committee that is investigating the future role and structure of the IARU. Work since the previous AC meeting has refined the structure and identified the remaining issues to be resolved.

6. A resolution offered by Region 1 that seeks to improve the operating standards of radio amateurs was adopted. The AC endorses and recommends the principles set out in the booklet â€œEthics and Operating Procedures

for the Radio Amateurâ€□ by John Devoldere, ON4UN and
Marc Demeuleneere
, ON4WW, and encourages each IARU Region to consider this booklet, with
a view to adopting it, including any Regional variations that might be
felt appropriate.

7. A study of the international QSL bureau system was commissioned. The study will seek input from member-societies on the problems they face in light of escalating postage and other expenses, and the anticipated impact of electronic confirmation systems such as the
ARRLâ€™s Logbook
of the World.

8. The three-year strategic plan for the development of support for amateur radio frequency allocations was reviewed and renewed for the period 2008-2011. The principal focus is on preparations for the 2011 World Radiocommunication Conference (WRC-11), especially the attainment of an amateur allocation in the vicinity of 500 kHz.

9. The International Telecommunication Union (ITU) meetings at which IARU representation will be required for the coming year were identified, and plans for representation were reviewed.

10. The plans of Region 3 for the IARU presence at Telecom Asia 2008 (Bangkok, 2-5 September) and of the International Secretariat for Telecom World 2009 (Geneva, 5-9 October) were reviewed.

11. The budget for 2009-2011 as presented by the International Secretariat (ARRL) was reviewed. The budget includes provision for financial contributions from the three regional organizations to defray a portion of the expenses, in accordance with previously adopted policy.

12. The 29 March 2009 implementation of the worldwide exclusive allocation of 7100-7200 kHz adopted at the 2003 WRC was noted and the many contributors to this achievement were recognized.

13. â€œAmateur Radio: Your Resource in Disaster and
Emergency
Communicationâ€□ was selected as the theme for the
next World Amateur
Radio Day, April 18, 2009.

14. Status reports from each of the three IARU regional organizations were received and discussed. The next regional conference will be that of Region 1, to be held in Cavtat, Croatia in mid-November.

Attending the Konstanz meeting were IARU President Larry Price, W4RA; Vice President Tim Ellam, VE6SH/G4HUA; Secretary David Sumner, K1ZZ; regional representatives Ole Garpestad, LA2RR, Don Beattie, G3BJ, Hans Blondeel Timmerman, PB2T, Reinaldo Leandro, YV5AMH, Ramon Santoyo, XE1KK, Rod Stafford, W6ROD, Michael Owen, VK3KI, Gopal Madhavan, VU2GMN, ARRL President Joel Harrison, W5ZN, on behalf of the International Secretariat, and recording secretary Paul Rinaldo, W4RI. IARU

International Coordinator for Emergency Communications Hans Zimmermann, HB9AQS/F5VKP attended a portion of the meeting.

The next scheduled meeting of the AC will be held in Christchurch, New Zealand in October 2009.

[ANS thanks Trevor, M5AKA, for the above information]

/EX

SB SAT @ AMSAT $ANS-180.04
HAM RADIO IN SPACE: CELEBRATING 45 YEARS OF WOMEN IN SPACE

AMSAT News Service Bulletin 180.04
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.04

HAM RADIO IN SPACE: CELEBRATING 45 YEARS OF WOMEN IN SPACE

In ham radio space related news, word that special event station R45VT is on the air. This, to commemorate the 45th Anniversary of Valentina Vladimirovna Tereshkova becoming the first woman in space.

Tereshkova flew to orbit on June 16th 1963 as pilot onboard Vostok 6. Her call sign during the flight was Chaika. She spent 71 hours in space orbiting the Earth 48 times.

Since that time women have made a significant contribution to space exploration and many of them have been licenced Radio Amateurs. A few of the many notable women space explorers since Valentina Tereshkova include American Sally Ride and the United Kingdom's Helen Sharman to mention only a few.

Sharman was also the first UK woman to be issued a ham radio call for her flight. She operated from the Mir Space Station as GB1MIR

And very apropos for this type of commemorative operation. At least one UK ham resports that he recently worked R45VT through the VO-52 amateur radio satellite. (Southgate)

[ANS thanks ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-180.05
Stanford Cubesat Ground Station Survey

AMSAT News Service Bulletin 180.05
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.05

James Cutler, Department of Aeronautics and Astronautics at Stanford
University asks for help from amateur radio cubesat ground stations,
"We are conducting a survey on global ground station availability,
and we need your help! If you have a ground station, would you
please fill out our survey? It will ask you about station locations
and the characteristics of the antennas (type and frequency)".

The survey is located at:
URL: http://ssdl.stanford.edu/gs_survey/
User: gs
Password: stanford
Institution - just use your callsign

Please provide input by July 7, 2008 if possible. We will make the
results available later this summer. We will be using the data for
research on improving throughput through networks such as GENSO.

[ANS thanks James Cutler, and Graham G3VZV for the above information]

/EX

SB SAT @ AMSAT $ANS-180.06
Upcoming ISS Scheduled Contacts

AMSAT News Service Bulletin 180.06
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.06

ESC (Euro Space Camp) in Belgium
Simulated contact with Frank De Winne ON1DWN
Contact is a go for: Thu 2008-07-03 1900 UTC at the earliest
Watch for IRLP coverage.

Ottawa South United Soccer Club, Canada
Simulated contact with Bob Thirsk W5/VA3CSA
Contact is a go for: Thu 2008-07-03 20:55 GMT at the earliest
Watch for IRLP coverage.

Round Rock Texas Scout Pack #304 and Blackland Prairie Elementary
School, Round Rock, Texas, direct via W5KA
Contact is a go for: Fri 2008-07-04 16:32 UTC 52 deg

Total number of ARISS ISS to earth school contacts is 350. (***)
Total number of ARISS supported terrestrial contacts is 7.

QSL information may be found at:
http://www.arrl.org/ARISS/arissfaq.html
http://www.rac.ca/ariss/oindex.htm#QSL's

ISS callsigns: DP0ISS, NA1SS, OR4ISS, RS0ISS

****
****

The complete schedule page has been updated as of 2008-06-26 04:00 UTC.

Here you will find a listing of all scheduled school contacts, and
questions, other ISS related websites, IRLP and Echolink websites, and
instructions for any contact that may be streamed live.
http://www.amsat.org/amsat/ariss/news/arissnews.txt

The successful school list has been updated as of 2008-06-26 04:00
UTC.
http://www.amsat.org/amsat/ariss/news/Successful_ARISS_schools.rtf

Frequency chart for packet, voice, and crossband repeater modes showing
Doppler correction as of 2005-07-29 04:00 UTC
http://www.amsat.org/amsat/ariss/news/ISS_frequencies_and_Doppler_correct
ion.r
tf

Listing of ARISS related magazine articles as of 2006-07-10 03:30 UTC:
http://www.amsat.org/amsat/ariss/news/ARISS_magazine_articles.rtf

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****

There have been rumors in the past indicating that the ISS was having
direct contacts on the 40 meter band. There is no HF radio equipment
on board and available yet. The HF antenna is mounted. Sometimes
WA3NAN will retransmit shuttle audio.

****
****

Expedition 17 on orbit:
Sergei Volkov
Oleg Kononenko RN3DX
Gregory Chamitoff KD5PKZ

****
****

73,
Charlie Sufana AJ9N
One of the ARISS operation team mentors

[ANS thanks Charlie, AJ9N, for the above information]

/EX

SB SAT @ AMSAT $ANS-180.07
Satellite Shorts From All Over

AMSAT News Service Bulletin 180.07
>From AMSAT HQ SILVER SPRING, MD.
June 29, 2008
To All RADIO AMATEURS
BID: $ANS-180.07

+ Paul, 2E1EUB plans to be active on satellites from grid IO87rj near Aberdeen, Scotland starting June 28 for 7 days. He will be using the callsign 2M1EUB/P. There may be some low elevation opportunities to work North America via AO-7. The QRZ.com web page 2M1EUB provides QSL information.

+ The NanoSail-D satellite mentioned in prior ANS reports was featured this week in a NASA web release: "This summer, NASA engineers will try to realize a dream older than the Space Age itself: the deployment
of a working solar sail in Earth orbit. It is scheduled for launch on-
board a SpaceX Falcon 1 rocket as early as July 29, 2008. See:

http://science.nasa.gov/headlines/y2008/26jun_nanosaild.htm?list958901

+ The EE Times ran an article about Suitsat and SuitSat-2. The SDR transponder aboard SuitSat-2 is based on the High Performance Software
Defined Radio "Odyssey" system. For the article see:
http://www.eetimes.com/showArticle.jhtml;?articleID 8403999
(Via Graham, KE9H on the HPSDR Discussion List at http://hpsdr.org)

[ANS thanks everyone for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

117. Test Preparation Software

Newsgroup: rec.radio.amateur.space
Date: 2008-07-03 03:27:33 UTC
From: Webmaster <webmaster@oaklanesoftware.com>
Message-ID: <wGXak.12439$rH1.5278@newsfe20.lga>
Source record: 797
Cross-posted to: rec.radio.amateur.packet,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.amateur.spacerec.radio.scanner,rec.radio.amateur.swap

Test Preparation Software

Pass your US FCC ham radio license test with ease. Our test preparation software
serves as a training aid to help amateurs and prospective amateurs pass the VEC's administered test. When you can consistently pass the test given by our test preparation software, you will almost certainly pass an actual test.

Our ham radio license test preparation software uses the latest officially released VEC's approved question pools. The program breaks the test into different sub-element. Integrated into the software are illustrations and Part 97 rules pertaining to the current question. The program tracks the progress of the tests taken. Once you have mastered each sub-element you are ready for the official test.

Visit our web site at http://www.hamradiolicense.net for more information.

118. Apollo Unified S-Band System

Newsgroup: rec.radio.amateur.space
Date: 2008-07-03 09:55:21 UTC
From: dot <"lorenz (dot) born (at) gmail (dot) com">
Message-ID: <51aeb$486ca220$50dba232$7246@news.hispeed.ch>
Source record: 798
Cross-posted to: sci.space.history,rec.radio.amateur.space

Dear all,

I'm searching for detailed information about the electronics (schemata, used components, layout, etc.) used for the Unified S-Band System for the Apollo spacecraft. Special interest are about the Unified S-Band System within the Command and Service Module. Since I already read most of the NASA documents, I'm still wondering what kind of electronics, e.g. MESFET, transistors, logic devices, etc. those guys used to construct the Unified S-Band System. Thanks for any hint.

best regards
Lorenz, HB9DTN
--
Lorenz Born -- Born SpaceTec, Inc -- Switzerland
Mail: lorenz (dot) born (at) gmail (dot) com
"Apollo 8, you are Go for TLI."
Mike Collins, Dec 21, 1968

119. Re: Apollo Unified S-Band System

Newsgroup: rec.radio.amateur.space
Date: 2008-07-03 17:52:17 UTC
From: RFI-EMI-GUY <Rhyolite@NETTALLY.COM>
Message-ID: <Ni8bk.19750$3F5.16314@bignews2.bellsouth.net>
Source record: 799
Cross-posted to: sci.space.history,rec.radio.amateur.space

dot wrote:
> Dear all,
>
> I'm searching for detailed information about the electronics (schemata,
> used components, layout, etc.) used for the Unified S-Band System for
> the Apollo spacecraft. Special interest are about the Unified S-Band
> System within the Command and Service Module. Since I already read most
> of the NASA documents, I'm still wondering what kind of electronics,
> e.g. MESFET, transistors, logic devices, etc. those guys used to
> construct the Unified S-Band System. Thanks for any hint.
>
> best regards
> Lorenz, HB9DTN

Did you try Google? A lot of stuff out there under Unified S-Band System:

http://www.honeysucklecreek.net/station/USB_NASA_SP-87.html

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"ï¿œ

"Treason doth never prosper: what's the reason?
For if it prosper, none dare call it treason."

"Follow The Money" ;-P

120. Re: Apollo Unified S-Band System

Newsgroup: rec.radio.amateur.space
Date: 2008-07-03 18:14:24 UTC
From: BradGuth <bradguth@gmail.com>
Message-ID: <331a8c85-3e38-402c-a9cf-bac3f5376b4e@r66g2000hsg.googlegroups.com>
Source record: 800
Cross-posted to: sci.space.history,rec.radio.amateur.space

Try asking about their "chapel bell" S-Band transponders.

- Brad Guth Brad_Guth Brad.Guth BradGuth

dot wrote:
> Dear all,
>
> I'm searching for detailed information about the electronics (schemata,
> used components, layout, etc.) used for the Unified S-Band System for
> the Apollo spacecraft. Special interest are about the Unified S-Band
> System within the Command and Service Module. Since I already read most
> of the NASA documents, I'm still wondering what kind of electronics,
> e.g. MESFET, transistors, logic devices, etc. those guys used to
> construct the Unified S-Band System. Thanks for any hint.
>
> best regards
> Lorenz, HB9DTN
> --
> Lorenz Born -- Born SpaceTec, Inc -- Switzerland
> Mail: lorenz (dot) born (at) gmail (dot) com
> "Apollo 8, you are Go for TLI."
> Mike Collins, Dec 21, 1968

121. WSR-185 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-07-04 12:51:51 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c8ddd4$b1ecf1c0$15c6d540$@net>
Source record: 801
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-185.S1
WSR 185 Part 1 07/03/2008

AMSAT NEWS SERVICE BULLETIN 185.S1 FROM AMSAT HQ
SILVER SPRING, MD, July 03 2008
TO ALL RADIO AMATEURS
BID: $ANS-185.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - OL/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-185.S2
WSR 185 Part 2 07/03/2008

AMSAT NEWS SERVICE BULLETIN 185.S2 FROM AMSAT HQ
SILVER SPRING, MD, July 03 2008
TO ALL RADIO AMATEURS
BID: $ANS-185.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895

Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:

Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11

Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-185.S3
WSR 185 Part 3 07/03/2008

AMSAT NEWS SERVICE BULLETIN 185.S3 FROM AMSAT HQ
SILVER SPRING, MD, July 03 2008
TO ALL RADIO AMATEURS
BID: $ANS-185.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====

UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480

Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-185.S4
WSR 185 Part 4 07/03/2008

AMSAT NEWS SERVICE BULLETIN 185.S4 FROM AMSAT HQ
SILVER SPRING, MD, July 03 2008
TO ALL RADIO AMATEURS
BID: $ANS-185.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-185.S5
WSR 185 Part 5 07/03/2008

AMSAT NEWS SERVICE BULLETIN 185.S5 FROM AMSAT HQ
SILVER SPRING, MD, July 03 2008
TO ALL RADIO AMATEURS

BID: $ANS-185.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)

* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

122. ANS-188 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-07-06 02:04:28 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002d01c8df0c$a4ce6350$ee6b29f0$@net>
Source record: 802
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-188

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** http://www.amsat.org/amsat-new/symposium/2008/index.php ***
****

In this edition:

* P3E Update From Friedrichshafen Ham Radio 2008
* AMSAT Field Day Logs Are Due by July 14
* New Earth Photos Received From Cute-1.7
* AMSAT 2008 Space Symposium Call For Papers
* ARISS Status Report for the Week of June 30, 2008

SB SAT @ AMSAT $ANS-188.01
P3E Update From Friedrichshafen Ham Radio 2008

AMSAT News Service Bulletin 188.01
>From AMSAT HQ SILVER SPRING, MD.
July 6, 2008
To All RADIO AMATEURS
BID: $ANS-188.01

AMSAT-DL provided P3E updates at the HAM RADIO 2008 Convention - the international amateur radio exhibition held June 27-29 in Friedrich-shafen near Lake Constance in Germany.

This year HAM RADIO was focused on the topic "Satellites and Space Activities in Hamradio", giving AMSAT-DL, in cooperation with DARC, an opportunity to offer a special show highlighting amateur radio in space. This included flight hardware at the AMSAT-DL booth.

Peter Gï¿½lzow, DB2OS, AMSAT-DL gave a presentation discussing the current status of activities for the construction and launch of the

new satellite AMSAT P3-E. The P3E team reported that the mechanical work on the satellite has been completed but it doesn't yet have the Internal Housekeeping Unit (IHU). There has been good progress on the transponder payloads with the 435 to 145 MHz software defined linear transponder (SDX) being demonstrated at the event by Howard, G6LVB.

Peter reported that the cost quoted by Arianespace for the launch of P3E is beyond the budget of AMSAT-DL, however, AMSAT-F has offered its support in any further negotiations. The possibility of using launch sites operated by India, Russia or Japan is being investigated.

Dr. Achim Vollhardt, DH2VA, AMSAT-DL spoke on the status of the inter-planetary Mars mission AMSAT P5-A. P3E is closely linked to the P5E Mars Orbiter also being built by AMSAT-DL. This will be the first pri-vate venture spacecraft to go to Mars and will use the 2.4 GHz and 10 GHz
Amateur Satellite Service frequency allocations.

The exhibition also included live reception of interplanetary space probes by Freddy de Guchteneire, ON6UG. Professor Dr. Karl Meinzer, DJ4ZC gave the opening address. Thilo Kootz, DL9KCE moderated a panel discussion, "Amateur radio satellite - Where have they gone?", with key participation by AMSAT-DL officers.

The new SDX (Software Defined Transponder) for P3E, was available for live experimentation at the booth and throughout the fairgrounds during the exhibition.

[ANS thanks Peter Gï¿½lzow, DB2OS, AMSAT-DL, and the news service at the Southgate Amateur Radio Club for the above information]

/EX

SB SAT @ AMSAT $ANS-188.02
AMSAT Field Day Logs Are Due by July 14

AMSAT News Service Bulletin 188.02
>From AMSAT HQ SILVER SPRING, MD.
July 6, 2008
To All RADIO AMATEURS
BID: $ANS-188.02

AMSAT Director of Contests and Awards Bruce Paige, KK5DO, says, "Now that Field Day is over for 2008, there is one more thing that you have to take care of. You still need to submit your contacts for scoring under the AMSAT rules."

You can download the rules from:
http://www.amsatnet.com/2008fd.pdf -or-
http://www.amsatnet.com/2008fd.doc

Bruce reminds participants that the Satellite Summary Sheet should be used for submission of the AMSAT Field Day competition and be re-ceived by KK5DO (email or postal mail) by 11:59 P.M. CDT, Monday,

July 14, 2008. The preferred method for submitting your log is via
e-mail to kk5do@amsat.org or kk5do@arrl.net.

You may also use the postal service but give plenty of time for your
results to arrive by the submission date. Add photographs or other
interesting information so that can be used an article for the Journal.

You will receive an email back (within one or two days) from Bruce
when he receives your email submission. If you do not receive a con-
firmation message, try sending it again or send it to his other e-mail
address.

If you are mailing your submission, the address is:
Bruce Paige, KK5DO
Director of Awards and Contests
PO Box 310
Alief, TX 77411-0310

[ANS thanks Bruce Paige, KK5DO for the above information]

/EX

SB SAT @ AMSAT $ANS-188.03
New Earth Photos Received From Cute-1.7

AMSAT News Service Bulletin 188.03
>From AMSAT HQ SILVER SPRING, MD.
July 6, 2008
To All RADIO AMATEURS
BID: $ANS-188.03

Mineo Wakita, JE9PEL reported this week that more pictures have been
received from the CMOS camera aboard the Cute-1.7 + APD II satellite.
The pictures may be viewed on-line at:
http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/01-04.jpg
http://www.ne.jp/asahi/hamradio/je9pel/cut17ap2.htm

The CMOS camera aboard Cute-1.7 + APD II is controlled by a PDA which
also performs the JPEG format conversion and compression prior to
transmission via FM packet on the satellite's UHF downlink.

[ANS thanks Mineo Wakita, JE9PEL for the above information]

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SB SAT @ AMSAT $ANS-188.04
AMSAT 2008 Space Symposium Call For Papers

AMSAT News Service Bulletin 188.04
>From AMSAT HQ SILVER SPRING, MD.
July 6, 2008
To All RADIO AMATEURS
BID: $ANS-188.04

2008 AMSAT North America Space Symposium
24-26 October 2008, Atlanta, Georgia Call for Papers:

This is the first call for papers for the 2008 AMSAT Space Symposium and Annual Meeting to be held October 24-26, 2008 in Atlanta, Georgia.

Proposals for papers, symposium presentations, and poster presentations are invited on any topic of interest to the amateur satellite program. An emphasis for this year is an educational outreach to middle and high school students. Another topic if interest is using amateur satellite tracking systems to monitor deep space network objects.

In particular, papers on the following topics are solicited:

* Students & Education
* ARISS
* AO-51
* P3E
* Eagle
* Deep Space Network monitoring
* Any additional satellite-related topics.

We request a one-page abstract as soon as possible. Camera ready copy on paper or in electronic form will be due by September 1, 2008 for inclusion in the printed symposium proceedings. Papers received after this date may not be included in the printed proceedings.

Abstracts and papers should be sent to n8fgv@amsat.org

[ANS thanks the 2008 Space Symposium Committe for the above information]

/EX

SB SAT @ AMSAT $ANS-188.05
ARISS Status Report for the Week of June 30, 2008

AMSAT News Service Bulletin 188.05
>From AMSAT HQ SILVER SPRING, MD.
July 6, 2008
To All RADIO AMATEURS
BID: $ANS-188.05

1. School Contacts

Two simulated ARISS contacts were held on Thursday, July 3. These training sessions are terrestrial-based amateur radio contacts using ARISS-equivalent equipment.

The first simulated contact was with Frank De Winne, ON1DWN, and the ESC (Euro Space Camp) in Belgium. Ottawa South United Soccer Club in Canada will also take part in a simulated contact with astronaut Bob Thirsk, W5/VA3CSA.

Round Rock Texas Scout Pack #304 and Blackland Prairie Elementary School in Round Rock, Texas had an ARISS contact on Friday, July 4. This event introduced scouts to the concepts required for their radio

merit badges, giving them a practical example of amateur radio in action. It also provided an activity for the scientist badge. The entire Pack (50-60 boys of various ranks) will be involved, as well as select Blackland Prairie Elementary School staff and students. Pack 304 will participate in a contest to determine the best questions to ask the astronaut. Media (newspaper, radio, television) coverage is planned and the governor will be invited.

An ARISS contact has been scheduled with the National Agriculture Museum

in Ottawa, Ontario, Canada on Wednesday, July 9 at 15:14 UTC. Telebridge

station W6SRJ in Santa Rosa, California will assist with the contact. The
museum is a large research facility in the City of Ottawa covering over

1000 years of major contributions to agricultural progress. A public camp
is part of the overall operation of the farm.

2. Successful Russian Contact

Kursk State University students participated in an ARISS contact during the Slavic Commonwealth Forum (formerly the International Congress
of Slavic States conference) in Sochi, Russia (on the Black Sea). The students spoke with Oleg Kononenko, RN3DX, on June 22.

3. Robinson Elementary School Contact Successful

On Wednesday, June 25, students from Robinson Elementary School in Robinson, Texas experienced an ARISS contact via the telebridge station WH6PN in Hawaii. Eleven students were able to ask one question each of astronaut Greg Chamitoff, KD5PKZ, as an audience of nearly 300 looked on.
After the contact, the bridge connection was kept up to answer the students' remaining questions. The audio was available via IRLP.

4. Astronaut Training Status

Astronauts Joe Acaba, KE5DAR, and Ricky Arnold, KE5DAU, participated in an ARISS basic operations training session on Thursday, June 26 at JSC. Both crew members are assigned to the STS-119 mission, which will bring Koichi Wakata to the ISS and return Sandy Magnus.

Nicole Stott, KE5GJN, Sandy Magnus, KE5FYE, and JAXA astronauts Koichi Wakata, KC5ZTA, and Soichi Noguchi, KD5TVP, received training on the ARISS ham radio equipment. Photos of the Energia training session are available on the following Web site:
http://www.energia.ru/eng/news/news-2008/photo_06-20.html

5. Under the Hood Posts SuitSat Article and Video

SuitSat appears on the cover of the June issue of Under the Hood, a supplemental issue of the EE Times. A link to the digital issue may be found here: http://www.nxtbook.com/nxtbooks/cmp/uth062308/

A video of ARISS member Steve Bible's talk on SuitSat given at the Embedded Systems Conference (EMS) in April 2008 has also been posted on the Under the Hood Web site. See:
http://cmptv.net/teardown/SuitSat

6. ARISS International Team Meeting Held

The ARISS monthly teleconference was held on Tuesday, June 17. Agenda items covered included the upcoming Moscow meeting, Amateur Radio on the Columbus module (ARCOL) and the status of SuitSat-2. Minutes have been posted to the ARISS Web site.
See: http://www.rac.ca/ariss/arisstel2008-06-17.htm

7. ARISS Delegate Recognized at Ham Fair

ARISS delegate Gaston Bertels, ON4WF, was recognized at the Ham Fair in Friedrichshafen, Germany for his many contributions to amateur radio including his ARISS work, his efforts on the Columbus antennas, and his selection for the CQ Hall of Fame. Ham Fair is the largest amateur radio

convention in Europe and was held over the weekend of June 27-29.

8. Amateur Radio Video Posted

The American Radio Relay League (ARRL) held its annual Field Day over the June 28-29 weekend. A Field Day video has been posted on YouTube. It features the International Space Station and/or ARISS program several

times. To view this, see:
http://www.youtube.com/watch?v=varHL752Odk

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

123. WSR-192 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-07-10 11:46:22 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000d01c8e282$98c4a870$ca4df950$@net>
Source record: 803
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-192.S1
WSR 192 Part 1 07/10/2008

AMSAT NEWS SERVICE BULLETIN 192.S1 FROM AMSAT HQ
SILVER SPRING, MD, July 10 2008
TO ALL RADIO AMATEURS
BID: $ANS-192.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-192.S2
WSR 192 Part 2 07/10/2008

AMSAT NEWS SERVICE BULLETIN 192.S2 FROM AMSAT HQ
SILVER SPRING, MD, July 10 2008
TO ALL RADIO AMATEURS
BID: $ANS-192.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895

Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:

Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11

Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-192.S3
WSR 192 Part 3 07/10/2008

AMSAT NEWS SERVICE BULLETIN 192.S3 FROM AMSAT HQ
SILVER SPRING, MD, July 10 2008
TO ALL RADIO AMATEURS
BID: $ANS-192.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====

UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480

Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-192.S4
WSR 192 Part 4 07/10/2008

AMSAT NEWS SERVICE BULLETIN 192.S4 FROM AMSAT HQ
SILVER SPRING, MD, July 10 2008
TO ALL RADIO AMATEURS
BID: $ANS-192.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-192.S5
WSR 192 Part 5 07/10/2008

AMSAT NEWS SERVICE BULLETIN 192.S5 FROM AMSAT HQ
SILVER SPRING, MD, July 10 2008
TO ALL RADIO AMATEURS

BID: $ANS-192.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)

* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

124. Radio Meteor Obs. Bull. June 2008

Newsgroup: rec.radio.amateur.space
Date: 2008-07-11 16:17:01 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <1o1f74tj67o0a1i3lskhfbom29pn3mkon1@4ax.com>
Source record: 804
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 179 of June 2008 (81 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0806.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

125. ANS-195 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-07-13 12:56:13 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c8e4e7$e9b1a190$bd14e4b0$@net>
Source record: 805
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-195

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* 2008 AMSAT North America Space Symposium
* AO-51 Operations Update
* KiwiSAT Progress Report
* Satellite Shorts From All Over
* ARISS Status - 07 July 2008

SB SAT @ AMSAT $ANS-195.01
2008 AMSAT North America Space Symposium

AMSAT News Service Bulletin 195.01
From AMSAT HQ SILVER SPRING, MD.
July 13, 2008
To All RADIO AMATEURS
BID: $ANS-195.01

2008 AMSAT North America Space Symposium
24-26 October 2008, Atlanta, Georgia Call for Papers:

This is the call for papers for the 2008 AMSAT Space Symposium and Annual Meeting to be held October 24-26, 2008 in Atlanta, Georgia.

Proposals for papers, symposium presentations, and poster presentations are invited on any topic of interest to the amateur satellite program. An emphasis for this year is an educational outreach to middle and high school students.

Another topic if interest is using amateur satellite
tracking systems to monitor deep space network objects.

In particular, papers on the following topics are solicited:
+ Students & Education
+ ARISS
+ AO-51
+ P3E
+ Eagle
+ Deep Space Network monitoring
+ Any additional satellite-related topics.

We request a one-page abstract as soon as possible. Camera
ready copy on paper or in electronic form will be due by
September 1, 2008 for inclusion in the printed symposium
proceedings. Papers received after this date may not be
included in the printed proceedings.

Abstracts and papers should be sent to n8fgv@amsat.org

[ANS thanks Robin, AA4RC and the 2008 Symposium Committee
for the above information]

/EX

SB SAT @ AMSAT $ANS-195.02
AO-51 Operations Update

AMSAT News Service Bulletin 195.02
From AMSAT HQ SILVER SPRING, MD.
July 13, 2008
To All RADIO AMATEURS
BID: $ANS-195.02

Gould, WA4SXM, AO-51 command station noted this week that the
transmitter power on AO-51 has been down due to the length of
eclipse that peaked about 2 weeks ago. AO-51 eclipse periods
will continue to get shorter until September when we will see
a no eclipse period for about 8 months.

Gould has been testing the charge/discharge rate. If any of
the transmitters are off or have changed he reminds users to
the status message on the digital downlink.

At present AO-51 is operating TXA at 430 mW (digital downlink)
and TXB at 470 mW (analog downlink). During the peak of the
eclipse periods both transmitters were operating in the 340 mW
range.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-195.03
KiwiSAT Progress Report

AMSAT News Service Bulletin 195.03
From AMSAT HQ SILVER SPRING, MD.
July 13, 2008
To All RADIO AMATEURS
BID: $ANS-195.03

Progress report - June 2008
by Fred Kennedy ZL1BYP - KiwiSAT Project Leader

Just before the Christmas period a very successful funding appeal was launched
on the <amsat-bb> by AMSAT-ZL President - Terry
(ZL3QL) and I note with pleasure
that the build fund swelled to 30% of the $10k
target in a very short time. This
is a brilliant response that boosts not only the
financial resource but also the
morale of the team! Believe me, building a bird is "mega" hard work (ask those
that have done it before) and support from the
eventual benefactors is very well
received. The feeling that it's all worth while is restored - at least for a while!

In addition to the actual cash donations we also have a number individuals offering to sponsor a specific item - as did we (AMSAT-ZL) in the pre launch build-up for Phase 3D. Doing that provides a
"personal input" to the project and
we're looking into suitable identifiable sub-units.

In the last Status Report mention was made of the Solar Cell problems faced by
the team. VERY recent events have, however, meant that this is no longer an impediment to progress!

A very thorough update of each of the satellite's
subsystems is available at the
AMSAT-ZL website
http://www.kiwisat.org.nz/status.html

[ANS thanks Fred, Zl1BYP, for the above information]

/EX

SB SAT @ AMSAT $ANS-195.04
Satellite Shorts From All Over

AMSAT News Service Bulletin 195.04
From AMSAT HQ SILVER SPRING, MD.
July 13, 2008
To All RADIO AMATEURS

BID: $ANS-195.04

+ Reminder! Sunday is/was your last chance to e-mail your satellite
operating logs from Field Day to Bruce, KK5DO. You may send
them to kk5do@amsat.org or kk5do@arrl.net. The AMSAT Field Day
rules can be found at: http://www.amsatnet.com/2008fd.pdf or
http://www.amsatnet.com/2008fd.doc. Your entry is due by
11:59 P.M. CDT, Monday, July 14, 2008.

+ Peter, DB2OS uploaded full-length videos about the integration
and launch of OSCAR-10 OSCAR-13 at:
http://en.sevenload.com/search/amsat/videos
There is also a video from the SDX demonstration from HamRadio 2008
in Friedrichshafen.

+ Robert, W6RQR is looking for other satellite operators in New Mexico
to help with a Satellite Forum at the Albuquerque Hamfest August 15
& 16. Contact Robert via rlasso (at)zianet.com if you can help.

+ AMSAT-UK will be holding their 23rd International Space Colloquium
at the University of Surrey, Guildford, England from Friday 25th
until Sunday 27th July. See: http://www.uk.amsat.org/Colloquium/
for the latest information.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-195.05
ARISS Status - 07 July 2008

AMSAT News Service Bulletin 195.05
From AMSAT HQ SILVER SPRING, MD.
July 13, 2008
To All RADIO AMATEURS
BID: $ANS-195.05

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been
scheduled with the Department of Astronomy &
Space Sciences (DASS) at the Kuwait
Science Club in Safat, Kuwait on Monday, July 14 at 17:05 UTC. Telebridge
station WH6PN in Hawaii will assist with the contact. DASS aims to spread
scientific awareness in the fields of astronomy and space sciences by
actively
engaging the public in exploring the cosmos. This educational activity will
educate young people about space stations, satellites and ham radio. A
national
competition will be announced through the Ministry of Education for all
schools
in Kuwait. The competition will encourage students to do research in space
science. Four students will be selected from 3 levels (elementary, middle,

high
school) to ask questions of the astronaut. Extensive media coverage is
expected
from at least 3 television stations, several newspapers, magazines and radio
stations.

2. Simulated Contacts Successful

Two simulated Amateur Radio on the International Space Station (ARISS)
contacts
were held on Thursday, July 3. The training sessions were terrestrial-based
amateur radio contacts using ARISS-equivalent
equipment. Frank De Winne, ON1DWN,
participated in the first contact with ESC (Euro Space Camp) in Belgium. The
second contact took place between the Ottawa South United Soccer Club in
Canada
and astronaut Bob Thirsk, W5/VA3CSA. There was IRLP coverage of both
contacts.

3. Successful ARISS Contact with Texan Scouts

On Friday, July 4, Round Rock Texas Scout Pack #304 and Blackland Prairie
Elementary School in Round Rock, Texas participated in a successful Amateur
Radio on the International Space Station (ARISS) contact. Ten Scouts asked
nearly twenty questions of Greg Chamitoff, KD5PKZ, before an audience of
100.
Two broadcast television stations and one local cable news outlet reported
on
the event. To view the Fox video, see:
http://www.myfoxaustin.com/myfox/pages/Home/Detail?contentId=6915557&version
=1&
locale=EN-US&layoutCode=VSTY&pageId=1.1.1

News 8 Austin also ran an article:
http://www.news8austin.com/content/top_stories/default.asp?ArID=213480

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

126. Ham Radio Test

Newsgroup: rec.radio.amateur.space
Date: 2008-07-13 20:48:48 UTC
From: Webmaster <webmaster@oaklanesoftware.com>
Message-ID: <ZStek.20409$%q.875@newsfe24.lga>
Source record: 806
Cross-posted to: rec.radio.amateur.packet,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.amateur.spacerec.radio.scanner,rec.radio.amateur.swap

Test Preparation Software

Pass your US FCC ham radio license test with ease. Our test preparation software
serves as a training aid to help amateurs and prospective amateurs pass the VEC's administered test. When you can consistently pass the test given by our test preparation software, you will almost certainly pass an actual test.

Our ham radio license test preparation software uses the latest officially released VEC's approved question pools. The program breaks the test into different sub-element. Integrated into the software are illustrations and Part 97 rules pertaining to the current question. The program tracks the progress of the tests taken. Once you have mastered each sub-element you are ready for the official test.

Visit our web site at http://www.hamradiolicense.net for more information.

127. Radio Astronomy

Newsgroup: rec.radio.amateur.space
Date: 2008-07-13 23:46:48 UTC
From: S J Roberts <borisone@borisone.karoo.co.uk>
Message-ID: <jJWdnQg1jJFrDufVRVnytAA@eclipse.net.uk>
Source record: 807

I hope this is not too off topic for this newsgroup...
Can anyone suggest which newsgroup is most suitable for someone with an interest in building radio telescopes?
I'm posting this here as most people here have experience in the frequencies / microwave techniques etc.
Some members may have branched into this area.

If this is completely off-topic / unsuitable for this group, please accept my apologies.

128. Re: Radio Astronomy

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 00:20:21 UTC
From: gwatts <gwatts@frontiernet.net>
Message-ID: <6Zwek.101085$c5.65621@fe101.usenetserver.com>
Source record: 808

S J Roberts wrote:
> I hope this is not too off topic for this newsgroup...
> Can anyone suggest which newsgroup is most suitable for someone with an
> interest in building radio telescopes?
> I'm posting this here as most people here have experience in the
> frequencies / microwave techniques etc.
> Some members may have branched into this area.

You should check in to, and maybe join the
Society of Amateur Radio Astronomers,
http://radio-astronomy.org/

They have a discussion list at
http://groups.google.com/group/sara-list

Good luck!
- Galen, W8LNA

129. Re: Radio Astronomy

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 00:30:13 UTC
From: gwatts <gwatts@frontiernet.net>
Message-ID: <m6xek.101087$c5.76645@fe101.usenetserver.com>
Source record: 809

gwatts wrote:
> S J Roberts wrote:
>> I hope this is not too off topic for this newsgroup...
>> Can anyone suggest which newsgroup is most suitable for someone with
>> an interest in building radio telescopes?
>> I'm posting this here as most people here have experience in the
>> frequencies / microwave techniques etc.
>> Some members may have branched into this area.
>
> You should check in to, and maybe join the
> Society of Amateur Radio Astronomers,
> http://radio-astronomy.org/
>
> They have a discussion list at
> http://groups.google.com/group/sara-list
>
> Good luck!
> - Galen, W8LNA

I just remembered Radio Astronomy Supplies,
http://www.nitehawk.com/rasmit/ras.html

130. Re: Ham Radio Test

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 20:19:16 UTC
From: kb9rqz <kb9rqz@puncemail.com>
Message-ID: <487bb4c8@news.x-privat.org>
Source record: 810
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

"Webmaster" <webmaster@oaklanesoftware.com> wrote in message
news:ZStek.20409$%q.875@newsfe24.lga...
> Test Preparation Software
>
> Pass your US FCC ham radio license test with ease. Our test preparation
> software
> serves as a training aid to help amateurs and prospective amateurs pass
> the
> VEC's administered test. When you can consistently pass the test given by
> our test preparation software, you will almost certainly pass an actual
> test.
>
> Our ham radio license test preparation software uses the latest officially
> released VEC's approved question pools. The program breaks the test into
> different sub-element. Integrated into the software are illustrations and
> Part 97 rules pertaining to the current question. The program tracks the
> progress of the tests taken. Once you have mastered each sub-element you
> are
> ready for the official test.
>
> Visit our web site at http://www.hamradiolicense.net for more information.
>
>
conggat on teh on topic poast

131. may the kelp be with you

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 20:34:18 UTC
From: an Old friend <kb9rqz@amsat.org>
Message-ID: <94cc05b3-96fc-4d19-b8e6-23edff09d0a6@z66g2000hsc.googlegroups.com>
Source record: 811
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

On Jul 14, 4:19 pm, "kb9rqz" <kb9...@puncemail.com> wrote:
>
fake

132. Re: Radio Astronomy

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 21:58:35 UTC
From: S J Roberts <borisone@borisone.karoo.co.uk>
Message-ID: <Guqdncxt9MS8UebVnZ2dneKdnZydnZ2d@eclipse.net.uk>
Source record: 812

Many thanks for your answer.

I'm familiar with the RAS and SARA web sites and have done extensive
searching for other resources.
I was not aware of the discussion list - this could be just what I need as I
want all equipment to be
'home-built' and modular to cover a range of frequencies dedicated to radio
astronomy.

I have only a 3m dish in my backyard to receive with - but at least it will
be a start!!

Additionally, since members of this group will be interested in accurate
signal sources for
their equipment - I have started with a rubidium controlled crystal
oscillator driving a couple
of Adret 5104 synthesizers all secondary disciplined with a Z3801a. Limited
by my measuring
accuracy to 1xE-10.

Overkill perhaps, but fun nevertheless!!

Cheers

Steve

"gwatts" <gwatts@frontiernet.net> wrote in message
news:m6xek.101087$c5.76645@fe101.usenetserver.com...
> gwatts wrote:
>> S J Roberts wrote:
>>> I hope this is not too off topic for this newsgroup...
>>> Can anyone suggest which newsgroup is most suitable for someone with an
>>> interest in building radio telescopes?
>>> I'm posting this here as most people here have experience in the
>>> frequencies / microwave techniques etc.
>>> Some members may have branched into this area.
>>
>> You should check in to, and maybe join the
>> Society of Amateur Radio Astronomers,
>> http://radio-astronomy.org/
>>
>> They have a discussion list at
>> http://groups.google.com/group/sara-list
>>
>> Good luck!
>> - Galen, W8LNA

>
> I just remembered Radio Astronomy Supplies,
> http://www.nitehawk.com/rasmit/ras.html

133. Re: Ham Radio Test

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 22:21:54 UTC
From: Channel Cop <nedrog@yahoo.com>
Message-ID: <cY6dnfAT7dvETObVnZ2dnUVZ_jednZ2d@comcast.com>
Source record: 813
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

"kb9rqz" <kb9rqz@puncemail.com> wrote in message
news:487bb4c8@news.x-privat.org...
>
> "Webmaster" <webmaster@oaklanesoftware.com> wrote in message
> news:ZStek.20409$%q.875@newsfe24.lga...
>> Test Preparation Software
>>
>> Pass your US FCC ham radio license test with ease. Our test preparation
>> software
>> serves as a training aid to help amateurs and prospective amateurs pass
>> the
>> VEC's administered test. When you can consistently pass the test given by
>> our test preparation software, you will almost certainly pass an actual
>> test.
>>
>> Our ham radio license test preparation software uses the latest
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>> released VEC's approved question pools. The program breaks the test into
>> different sub-element. Integrated into the software are illustrations and
>> Part 97 rules pertaining to the current question. The program tracks the
>> progress of the tests taken. Once you have mastered each sub-element you
>> are
>> ready for the official test.
>>
>> Visit our web site at http://www.hamradiolicense.net for more
>> information.
>>
>>
> conggat on teh on topic poast
What the hell is: "(conggat) (teh) (poast)"?? I wonder what language that
is?

134. may the kelp be with you

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 22:41:24 UTC
From: an Old friend <kb9rqz@amsat.org>
Message-ID: <afd36ff5-14ea-4fe6-8f15-1b5e090f680b@b1g2000hsg.googlegroups.com>
Source record: 814
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

On Jul 14, 6:21 pm, "Channel Cop" <ned...@yahoo.com> wrote:
> "
fake

135. may the kelp be with you

Newsgroup: rec.radio.amateur.space
Date: 2008-07-14 22:42:26 UTC
From: kb9rqz@yahoo.com
Message-ID: <0iln749tbavrkocs0o647atnntls10a6lo@4ax.com>
Source record: 818
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

On Mon, 14 Jul 2008 18:21:54 -0400, "Channel Cop" <nedrog@yahoo.com>
wrote:

>
>"kb9rqz" <kb9rqz@puncemail.com> wrote in message
>news:487bb4c8@news.x-privat.org...
>>
>

>>>
>>>
>> conggat on teh on topic poast
>What the hell is: "(conggat) (teh) (poast)"?? I wonder what language that
>is?
you shoudl know you psoted it

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act
** Posted from http://www.teranews.com **

136. Re: Ham Radio Test

Newsgroup: rec.radio.amateur.space
Date: 2008-07-15 19:23:33 UTC
From: SUPER SKYHOOK N8WWM <N8WWM@hotmail.com>
Message-ID: <487cf93e$0$25951$6e1ede2f@read.cnntp.org>
Source record: 815
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

"Channel Cop" <nedrog@yahoo.com> wrote in message
news:cY6dnfAT7dvETObVnZ2dnUVZ_jednZ2d@comcast.com...
>
> "kb9rqz" <kb9rqz@puncemail.com> wrote in message
> news:487bb4c8@news.x-privat.org...
>>
>> "Webmaster" <webmaster@oaklanesoftware.com> wrote in message
>> news:ZStek.20409$%q.875@newsfe24.lga...
>>> Test Preparation Software
>>>
>>> Pass your US FCC ham radio license test with ease. Our test preparation
>>> software
>>> serves as a training aid to help amateurs and prospective amateurs pass
>>> the
>>> VEC's administered test. When you can consistently pass the test given
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>>> our test preparation software, you will almost certainly pass an actual
>>> test.
>>>
>>> Our ham radio license test preparation software uses the latest
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>>> released VEC's approved question pools. The program breaks the test into
>>> different sub-element. Integrated into the software are illustrations
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>>> Part 97 rules pertaining to the current question. The program tracks the
>>> progress of the tests taken. Once you have mastered each sub-element you
>>> are
>>> ready for the official test.
>>>
>>> Visit our web site at http://www.hamradiolicense.net for more
>>> information.
>>>
>>>
>> conggat on teh on topic poast
> What the hell is: "(conggat) (teh) (poast)"?? I wonder what language that
> is?
>
IF YOU ARE GRANTED THE EXTREME HONOR OF BEING INVITED
TO SPEAK INTO THE MICROPHONE, PLEASE OBSERVE THE FOLLOWING RULES:

Speak in a southern accent, like an ignorant hillbilly, a drunk, or a
hip hop gangsta.

Use profanity as much as possible.

Loudly accuse people of "being on your channel" and threaten to "come kick their ass".

Repeat one or more of these phrases: DONCHA KNOW, RIGHT BACK ATCHA, WORLDWIDE, MERCY ME, TAN FER THAR, HALLOO AUDIOOO.

DO NOT TOUCH ANYTHING, TURN ANY KNOBS, SIT ON EQUIPMENT, ETC. I HAVE LOST MANY THOUSANDS OF BRAIN CELLS BY RF AND ELECTROCUTION IN THE PAST FEW WEEKS.

137. Re: Radio Astronomy

Newsgroup: rec.radio.amateur.space
Date: 2008-07-15 19:35:59 UTC
From: Greg <ash_5@gravitywell.org>
Message-ID: <z_6fk.1008$U5.633@newsb.telia.net>
Source record: 816

I can also recommend www.setileague.org
SETILeague is an offshoot of SARA and radio astronomy in general
is strong at hand.

138. may the kelp be with you

Newsgroup: rec.radio.amateur.space
Date: 2008-07-16 07:34:28 UTC
From: an Old friend <kb9rqz@amsat.org>
Message-ID: <5428e1fb-523f-4abc-a355-75301c7dd0f5@56g2000hsm.googlegroups.com>
Source record: 817
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.space

On Jul 15, 3:23 pm, "SUPER SKYHOOK N8WWM" <N8...@hotmail.com> wrote:
>
fake

139. Re: Ham Radio Test

Newsgroup: rec.radio.amateur.space
Date: 2008-07-17 23:58:23 UTC
From: k00kieolemorkie@gmail.com
Message-ID: <4cdcc78e-5fe2-44ac-8cce-4e76fb324a12@f63g2000hsf.googlegroups.com>
Source record: 819
Cross-posted to: alt.usenet.kooks,rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.space,alt.flame

On Jul 15, 2:23 pm, "SUPER SKYHOOK N8WWM" <N8...@hotmail.com> wrote:
> "Channel Cop" <kb9rqz@yahoo.com> wrote in message
>
> news:cY6dnfAT7dvETObVnZ2dnUVZ_jednZ2d@comcast.com...
>
>>>kb9rqz@hotmail.com
>
>
>
> > "kb9rqz" <kb9rqz@gmail.com> wrote in message
> >news:487bb4c8@news.x-privat.org...
>
> >> "Webmaster" <webmas...@oaklanesoftware.com> wrote in message
> >>news:ZStek.20409$%q.875@newsfe24.lga...
> >>>TestPreparation Software
>
> >>> Pass your US FCChamradio licensetestwith ease. Ourtestpreparation
> >>> software
> >>> serves as a training aid to help amateurs and prospective amateurs pass
> >>> the
> >>> VEC's administeredtest. When you can consistently pass thetestgiven
> >>> by
> >>> ourtestpreparation software, you will almost certainly pass an actual
> >>>test.
>
> >>> Ourhamradio licensetestpreparation software uses the latest
> >>> officially
> >>> released VEC's approved question pools. The program breaks thetestinto
> >>> different sub-element. Integrated into the software are illustrations
> >>> and
> >>> Part 97 rules pertaining to the current question. The program tracks the
> >>> progress of the tests taken. Once you have mastered each sub-element you
> >>> are
> >>> ready for the officialtest.
>
> >>> Visit our web site athttp://www.hamradiolicense.netfor more
> >>> information.
>
> >> conggat on teh on topic poast
> > What the hell is: "(conggat) (teh) (poast)"?? I wonder what language that
> > is?
>

> IF YOU ARE GRANTED THE EXTREME HONOR OF BEING INVITED
> TO SPEAK INTO THE MICROPHONE, PLEASE OBSERVE THE FOLLOWING RULES:
>
> Speak in a southern accent, like an ignorant hillbilly, a drunk, or a
> hip hop gangsta.
>
> Use profanity as much as possible.
>
> Loudly accuse people of "being on your channel" and threaten to "come
> kick their ass".
>
> Repeat one or more of these phrases: DONCHA KNOW, RIGHT BACK ATCHA,
> WORLDWIDE, MERCY ME, TAN FER THAR, HALLOO AUDIOOO.
>
> DO NOT TOUCH ANYTHING, TURN ANY KNOBS, SIT ON EQUIPMENT, ETC. I HAVE
> LOST MANY THOUSANDS OF BRAIN CELLS BY RF AND ELECTROCUTION IN THE PAST
> FEW WEEKS.- Hide quoted text -
>
>
Word on the street is Morkie "earned" his General by blowing &
swollowing the entire VE team.

140. may the kelp be with you

Newsgroup: rec.radio.amateur.space
Date: 2008-07-18 00:07:15 UTC
From: kb9rqz@yahoo.com
Message-ID: <0lnv74pqe7na9ipabbare50sq49lqqkq2d@4ax.com>
Source record: 821
Cross-posted to: alt.usenet.kooks,rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.space,alt.flame

On Thu, 17 Jul 2008 16:58:23 -0700 (PDT), k00kieolemorkie@gmail.com
wrote:

>
fake

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act
** Posted from http://www.teranews.com **

141. may the kelp be with you

Newsgroup: rec.radio.amateur.space
Date: 2008-07-18 01:13:39 UTC
From: an old friend <kb9rqz@hotmail.com>
Message-ID: <fc86e6ec-555f-4634-849d-49dde7007ce2@i76g2000hsf.googlegroups.com>
Source record: 820
Cross-posted to: alt.usenet.kooks,rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.space,alt.flame

On Jul 17, 7:58 pm, k00kieolemor...@gmail.com wrote:
>
> > DO NOT TOUCH ANYTHING, TURN ANY KNOBS, SIT ON EQUIPMENT, ETC. I HAVE
> > LOST MANY THOUSANDS OF BRAIN CELLS BY RF AND ELECTROCUTION IN THE PAST
> > FEW WEEKS.- Hide quoted text -
>
> Word on the street is Morkie "earned" his General by blowing &
> swollowing the entire VE team.-
only by fakes like yourself

142. WSR-199 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-07-18 19:38:51 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000b01c8e90d$e3407c80$a9c17580$@net>
Source record: 822
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-199.S1
WSR 199 Part 1 07/17/2008

AMSAT NEWS SERVICE BULLETIN 199.S1 FROM AMSAT HQ
SILVER SPRING, MD, July 17 2008
TO ALL RADIO AMATEURS
BID: $ANS-199.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07032008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====

AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-199.S2
WSR 199 Part 2 07/17/2008

AMSAT NEWS SERVICE BULLETIN 199.S2 FROM AMSAT HQ
SILVER SPRING, MD, July 17 2008
TO ALL RADIO AMATEURS
BID: $ANS-199.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895

Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07032008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:

Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11

Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-199.S3
WSR 199 Part 3 07/17/2008

AMSAT NEWS SERVICE BULLETIN 199.S3 FROM AMSAT HQ
SILVER SPRING, MD, July 17 2008
TO ALL RADIO AMATEURS
BID: $ANS-199.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====

UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480

Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

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/EX

SB SAT @ AMSAT W8ISS ANS-199.S4
WSR 199 Part 4 07/17/2008

AMSAT NEWS SERVICE BULLETIN 199.S4 FROM AMSAT HQ
SILVER SPRING, MD, July 17 2008
TO ALL RADIO AMATEURS
BID: $ANS-199.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
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/EX

SB SAT @ AMSAT W8ISS ANS-199.S5
WSR 199 Part 5 07/17/2008

AMSAT NEWS SERVICE BULLETIN 199.S5 FROM AMSAT HQ
SILVER SPRING, MD, July 17 2008
TO ALL RADIO AMATEURS

BID: $ANS-199.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)

* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

143. Good price and quality (www[dot]brandedsite[dot]com)

Newsgroup: rec.radio.amateur.space
Date: 2008-07-21 01:21:05 UTC
From: super kate <chenpeiqing10000@163.com>
Message-ID: <33c11c83-6dfa-46c9-b70d-540ae3b5ee6b@v1g2000pra.googlegroups.com>
Source record: 823

original benson and hedges,benson & hedges,b&h,Master
Case,Marlboro,cigarette tobacco shipping to uk,Duty Free Suppliers In
China Wanted Marlboro|555|Belomorkanal|Bond|Camel|Chesterfield|
Dallas|
Davidoff|Dunhill|Epique|Esse|Gauloises|Karelia|Kent|L&M|LuckyStrike|
Magna|Marlboro|MildSeven|MonteC|rlo|More|Muratti|PallMall|Parliament|
PeterI|R1|Rothmans|RussianStyle|Salem|Sobranie|Sovereign|Viceroy|
VirginiaSlims|Vogue|West|Winston|SpecialOffer
processed tobacco of all grades, for European market. (www
brandedsite
com)

cigarettes:mayfair,regal,club,benson and hedges,lambert and
butler,superkings,richmonds superkings,tobacco:golden
virginia,drum,wilsons (www[dot]brandedsite[dot]com)

Finest Cigartte from Europe uk's no.1 brand cigatettes king size l&b
clebration park uk duty paid.Hookah (www[dot]brandedsite[dot]com)
kinds of cigarettes Light and Mid and Normal (www brandedsite com)
with a competitive prices FOB or CNF cif
(www[dot]brandedsite[dot]com)
buy China brand cigarettes direct from manufacturer (www brandedsite
com)

are you looking for suppliers of high quality shisha tobacco
interested in exporting to Poland, to feed the developing popularity
of shisha smoking in the country. So far only low quality producers
are present on the market, and only small batches of high quality
tobacco is being brought to the country by individuals who travel
abroad or order from internet stores in other countries for personal
use, yet the demand for higher quality tobacco is very high on all
community forums, as well as among hookah bar owners.
(www[dot]brandedsite[dot]com)

1: Guarantee delivery due to nice packing and smart shipping (www
brandedsite com)

2: Good price and quality (www[dot]brandedsite[dot]com)

3: L&B, B&H, Benson, Hedges, Super Kings and Other Brand Cigarettes
www brandedsite com
only welcome serious buyer from all over the world to contact for
more
info!!!

brandedsite[@]hotmail[dot]com (www[dot]brandedsite[dot]com)

www brandedsite com

lyh_20082008 --2011

144. ANS-202 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-07-21 14:17:29 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301c8eb3c$7591e580$60b5b080$@net>
Source record: 824
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-202

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*********New Forms Online to register for this event**********
****

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Satellite Shorts From All Over
* Informational Changes
* Executive Board Meeting
* The UK Space Colloquium will be Webcast
* ARISS Status - 14 July 2008
* NEW OSCAR Satellite Identities Issued

SB SAT @ AMSAT $ANS-202.01
Satellite Shorts From All Over

AMSAT News Service Bulletin 202.01
From AMSAT HQ SILVER SPRING, MD.
July 20, 2008
To All RADIO AMATEURS
BID: $ANS-202.01

+ NASA's Deep Impact spacecraft has created a video of the moon transiting (passing in front of) Earth as seen from the space-craft's point of view 31 million miles (50 million kilometers away.
Quick Time version is available at:
http://www.nasa.gov/topics/solarsystem/features/epoxi_transit.html

YouTube version is available at:

http://www.universetoday.com/2008/07/17/an-alien-view-of-the-moon-transiting
-earth/

+ On-line video from the Dayton 2008 SDR Forum can be found at:
http://www.hamsdr.com/dnld.aspx. Scroll down the list to the
links labeled "Dayton_2008_Video".

+If you like some ideas about what Satellites were like in the past,
here is a link to a great puplication. I remember always having it
around my shack to show people about various types and operating of
satellites.

http://www.amsat-dl.org/pic/gallery2/main.php?g2_itemId=7527

+Full programme at the AMSAT-UK Space Colloquium

AMSAT-UK will be holding their 23rd International Space Colloquium at
the University of Surrey, Guildford, from Friday 25th until Sunday 27th
July. On Friday, in addition to the main lecture programme there will be
a special Beginners Workshop to show newcomers how to use the many
amateur satellites that are available. RSGB Amateur Radio Manager Carlos
Eavis G0AKI will be giving a presentation about the plans for a brand
new GB4FUN Radio Communications demonstration vehicle on Saturday 26th
July. On Sunday morning, the IARU Satellite Adviser Hans, ZS6AKV, will
chair the IARU Satellite Forum, which will be attended by the RSGB
Microwave Manager Murray Niman, G6JYB. He will be available for
questions on the papers relating to amateur satellite operation being
presented by the RSGB to the IARU Region 1 conference at Cavtat in
November. The event is open to all Radio Amateurs and SWL's. It is
planned to broadcast some of the proceedings live via the internet at
www.batc.tv [Thanks Ian, G3ZHI]

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-202.02
Informational Changes

AMSAT News Service Bulletin 202.02
From AMSAT HQ SILVER SPRING, MD.
July 20, 2008
To All RADIO AMATEURS
BID: $ANS-202.02

In the past weeks AMSAT's engineering department has experienced some
difficult times. At the present time Rick Hambly, W2GPS is acting VP
Engineering. In that role he will be the team leader of all active teams
and he will be the arbiter of the guidance provided to engineering by
the Board.

Rick wants to thank Bob McGwier N4HY for his service as VP Engineering.
He single handedly revitalized the department and brought on many new
high quality volunteers to work on AMSAT new vision. He has also been
the genesis of new concepts like the use of software defined radio

concepts as the basis for our new high performance linear transponder design (SDX) and for the implementation of a better HELAPS transmitter design using modern digital techniques to control its linearity. Fortunately Bob is staying actively involved in AMSAT and in our engineering efforts. He will be a key asset as we continue our march toward achieving AMSAT Mission and Vision.

Rick has also created an advisory committee to work on a new Engineering organization proposal. It is expected that this group will act quickly to provide an operational proposal for the next VP of Engineering to use in moving the engineering group toward meeting the goals of that group set a number of years ago.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-202.03
Executive Board Meeting

AMSAT News Service Bulletin 202.03
From AMSAT HQ SILVER SPRING, MD.
July 20, 2008
To All RADIO AMATEURS
BID: $ANS-202.03

An AMSAT executive meeting is planned for board members and senior officers in mid August to discuss the current status and future direction of AMSAT. The outcomes and expected results will be presented to the membership at the AMSAT Symposium in Atlanta, Oct 24-26.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-202.04
The UK Space Colloquium will be Webcast

AMSAT News Service Bulletin 202.04
From AMSAT HQ SILVER SPRING, MD.
July 20, 2008
To All RADIO AMATEURS
BID: $ANS-202.04

Thanks to the British Amateur Television Club (BATC) this years AMSAT-UK International Space Colloquium will be streamed live on the web.

Peter Blakeborough G3PYB, President of BATC, will be streaming video of the event live to the Internet so that Radio Amateurs and SWL's can watch it from anywhere in the world. This service will be available at http://www.batc.tv/

As well as live video BATC will also be providing a Live Chat web page enabling viewers to post messages.

The 23rd AMSAT-UK International Space Colloquium will be held at the University of Surrey, Guildford, England from Friday 25th until Sunday 27th July.

The Colloquium is open to all Radio Amateurs and SWL's. Either day passes or full packages comprising overnight accommodation and meals are available. An online booking service is available with PayPal, Visa and Master Card payments accepted.

For further details see http://www.uk.amsat.org/Colloquium/

A site map showing location of the Management Building and the adjacent main car park and conference visitors parking can be seen at http://www.uk.amsat.org/images/stories/uosmap6.jpg

Travel information: http://www.uk.amsat.org/content/view/23/52/

AMSAT-UK Tel: +44 (0)1258 453959
Email: g3wgm@amsat.org

Related URL's

British Amateur Television Club (BATC)
http://www.batc.org.uk/

BATC Video website
http://www.batc.tv/

[ANS thanks Trevor, M5AKA, for the above information]

/EX

SB SAT @ AMSAT $ANS-202.05
ARISS Status - 14 July 2008

AMSAT News Service Bulletin 202.05
From AMSAT HQ SILVER SPRING, MD.
July 14, 2008
To All RADIO AMATEURS
BID: $ANS-202.05

ARISS Status Report for the week of July 14, 2008

1. Upcoming School Contacts

An ARISS contact was held with the Department of Astronomy & Space Sciences (DASS) at the Kuwait Science Club in Safat, Kuwait on Monday, July 14 at 17:05 UTC. Telebridge station WH6PN in Hawaii assisted with the contact. DASS aims to spread scientific awareness in the fields of astronomy and space sciences by actively engaging the public in exploring the cosmos. This educational activity will educate young people about space stations, satellites and ham radio. A national competition will be announced through Ministry of Education for all schools in Kuwait. The competition will encourage students to do research in space science. Four students will be selected from 3 levels (elementary, middle, high school) to ask questions of the

astronaut. Extensive media coverage is expected from at least 3 television stations, several newspapers, magazines and radio stations.

European Space Camp 2008 will be held at the Zanka Children and Youth Centre in Zanka, Hungary for the children of ESA employees. The camp has been scheduled for an ARISS contact on Thursday, July 24. The Hungarian Astronautical Society (HAS) is organizing the event. The Radio Club of the Puskas Polytechnic (HA5KHC) will provide equipment and support the contact.

2. Canadian Campers Participate in Successful ARISS Contact

On Wednesday, July 9, youth attending the National Agriculture Museum in Ottawa, Ontario, Canada participated in an ARISScontact via telebridge station W6SRJ in Santa Rosa, California. Greg Chamitoff, KD5PKZ, answered 14 questions posed to him by 12 campers as an audience of approximately 120 watched. One television station, 2 radio stations, and one member of the press covered the event. The museum reported on the contact using its Web site. Radio station CFRA, which is the most listened to news radio station in Eastern Ontario, played the audio and interview throughout the day.

3. ARRL Article on ARISS Activities

On Tuesday, July 8, the American Radio Relay League (ARRL) ran an article on ARISS contacts which are taking place during the month of July. See: http://www.arrl.org/news/stories/2008/07/08/10202/?nc=1

The story is also available on The ARRL Letter:
http://www.arrl.org/arrlletter/08/0711/

4. ARISS Face to Face Meeting

The ARISS team is meeting in Moscow this week for its annual face to face meeting. The conference will be held July 17-18 and will be preceded by an Amateur Radio Working Group (ARWG) meeting July 14-16.

[ANS thanks Carol, KB3LKI, for the above information]

/EX
SB SAT @ AMSAT $ANS-202.06
NEW OSCAR Satellite Identities Issued

AMSAT News Service Bulletin 202.06
From AMSAT HQ SILVER SPRING, MD.
July 20, 2008
To All RADIO AMATEURS
BID: $ANS-202.06

Satellite CUTE-1.7 + APD II has been issued the OSCAR Number CO-65.
This was at the request of Tokyo Institute of Technology.
lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

Satellite SEEDS II Has been issued the OSCAR number CO-66.
This was requested by Nihon University.
(http://sat.aero.cst.nihon-u.ac.jp)

[ANS thanks Drew, KO4MA, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato

145. WSR-206 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-07-24 12:42:10 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701c8ed8a$ab2e7f00$018b7d00$@net>
Source record: 825
Cross-posted to: rec.radio.amateur.space,rec.radio.info

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This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-206.S1
WSR 206 Part 1 07/24/2008

AMSAT NEWS SERVICE BULLETIN 206.S1 FROM AMSAT HQ
SILVER SPRING, MD, July 24 2008
TO ALL RADIO AMATEURS
BID: $ANS-206.S1

VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
```

Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
V2u2
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[072408]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear

U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm

[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-206.S2
WSR 206 Part 2 07/24/2008

AMSAT NEWS SERVICE BULLETIN 206.S2 FROM AMSAT HQ
SILVER SPRING, MD, July 24 2008
TO ALL RADIO AMATEURS
BID: $ANS-206.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844

Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
V2/u2
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07242008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz

Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
Cute-1.7+APD II

Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[05292008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: IN ORBIT

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[05292008]
=====
Seeds 2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[05012008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear

U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-206.S3
WSR 206 Part 3 07/24/2008

AMSAT NEWS SERVICE BULLETIN 206.S3 FROM AMSAT HQ
SILVER SPRING, MD, July 24 2008
TO ALL RADIO AMATEURS
BID: $ANS-206.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
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SB SAT @ AMSAT W8ISS ANS-206.S4
WSR 206 Part 4 07/24/2008

AMSAT NEWS SERVICE BULLETIN 206.S4 FROM AMSAT HQ
SILVER SPRING, MD, July 24 2008
TO ALL RADIO AMATEURS
BID: $ANS-1206.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-206.S5
WSR 206 Part 5 07/24/2008

AMSAT NEWS SERVICE BULLETIN 206.S5 FROM AMSAT HQ
SILVER SPRING, MD, July 24 2008
TO ALL RADIO AMATEURS
BID: $ANS-206.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

146. Amateurs web camchat

Newsgroup: rec.radio.amateur.space
Date: 2008-07-25 11:16:06 UTC
From: tamarmadgecay@gmail.com
Message-ID: <63f9744c-4e40-46f6-aa19-6cbd72525f0d@v39g2000pro.googlegroups.com>
Source record: 826
Cross-posted to: rec.radio.amateur.space,rec.radio.shortwave,rec.roller-coaster,rec.running,rec.scouting.issues

Amateurs web camchat http://tubepenthouse.servik.com/view_cam.htm

147. ANS-209 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-07-27 01:09:33 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201c8ef85$765e00a0$631a01e0$@net>
Source record: 827
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-209

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** http://www.amsat.org/amsat-new/symposium/2008/index.php ***
****

In this edition:

* AMSAT-UK Hosts Successful Space Colloquium
* Delfi-C3 Amateur Radio Transponder Activated
* AMSAT 2008 Field Day Summary
* Cal Poly Requesting Beacon Capture Help
* AMSAT Journal Update
* Satellite Shorts From All Over
* ARISS Status Report for the Week of July 21, 2008

SB SAT @ AMSAT $ANS-209.01
AMSAT-UK Hosts Successful Space Colloquium

AMSAT News Service Bulletin 209.01
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.01

A successful 23rd AMSAT-UK International Space Colloquium was held at the University of Surrey, Guildford, England this weekend.

Prof Sir Martin Sweeting, G3YJO Chairman AMSAT-UK, opened the Colloquium on Friday. This was followed by the keynote speech given by Dr Rob Gowen, Department of Space & Climate Physics (Mullard Space Science Laboratory, University College London and Coordinator of the UK Lunar Penetrator Consortium) on "Science Penetrators for the UK MoonLITE mission".

On Saturday the Delfi-C3 team gave a presentation on their exciting new satellite. Its SSB/CW 435/145 linear transponder will activated soon and is sure to prove popular with satellite enthusiasts world-wide.

Saturday's Colloquium schedule also included presentations from AMSAT-DL on both the eagerly awaited P3E High Earth Orbiting satel-lite and the pioneering Mars Orbiter P5A. This will be the first private venture spacecraft to travel to the Red Planet providing Radio Amateurs with some true DX signals.

A complete listing of the Colloquium Technical program can be found at: http://www.uk.amsat.org/content/view/640/213/

The IARU Satellite Forum chaired by the IARU Satellite Adviser Hans van de Groenendaal ZS6AKV also met during the Colloquium weekend. The main topic included Band planning for satellite operations on frequencies in the Amateur Service.

The Colloquium included a live webcast of the proceedings via http://www.batc.tv/. There was a Live Chat page available to enable web viewers to post messages.

[ANS thanks Trevor, M5AKA and AMSAT-UK for the above information]

/EX

SB SAT @ AMSAT $ANS-209.02
Delfi-C3 Amateur Radio Transponder Activated

AMSAT News Service Bulletin 209.02
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.02

The Delfi team activated the Amateur Radio 435 to 145 MHz linear transponder onboard the satellite activated just before they left the Netherlands to attend the AMSAT-UK Colloquium which was held July 25-27 at the University of Surrey in Guildford, England.

The Amateur Radio satellite Delfi-C3 (DO-64), built at the Delft University of Technology in the Netherlands, was launched in April. Since then it has been collecting educational research data for use by the university students with the assistance of Radio Amateurs around the world.

Members of the Delfi-C3 team gave presentations during the Colloquium about their exciting new Amateur Radio satellite.

The transponder can be accessed with these frequencies:
Transponder mode beacon: 145.870 MHz CW
Linear transponder downlink: 145.880 - 145.920 MHz
Linear transponder uplink: 435.570 - 435.530 MHz

All frequencies are +/- Doppler shift that can be up to 3 kHz at
145 MHz. As it's an inverting transponder a LSB signal on the uplink
would be translated to a USB signal on the downlink.

The transponder mode was switched on during this weekend whenever it
was within range of Europe and automatically switched back to science
(telemetry) mode when it entered eclipse about 1 hour later.

Rob, PE1ITR reported from the Netherland on Saturday, July 26, "Today
I made my first QSO around 10:53UTC and worked HA2RD with 5x7 signals.
I also heard F5ETM."

Alan, ZL2BX said, "The transponder was on over ZL this morning 2036UT
pass with weak signals from transponder downlink and beacon. It was
active again on the 2212UT pass with very good signals from both trans-
ponder downlink and beacon."

More information on this satellite can be found at:
Delfi-C3: http://www.delfic3.nl/

Delfi-C3 Videos on YouTube can be found at:
http://www.youtube.com/user/DelfiC3

[ANS thanks the Delfi-C3 Team and AMSAT-UK for the above information]

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SB SAT @ AMSAT $ANS-209.03
AMSAT 2008 Field Day Summary

AMSAT News Service Bulletin 209.03
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.03

AMSAT Director Contests and Awards Bruce Paige, KK5DO, provided an
executive summary of participation in the 2008 AMSAT Field Day.

The results will be published in the July/August AMSAT Journal. This
includes some really nice photos that were sent in. Detailed results
will also be posted in an ANS bulletin.

This year, we had 8 satellites used. There was even one QSO on AO-16.
A total of 120 QSO's were reported and we had 17 stations submit
scores. The most contacts were done on VO-52 this year. Behind that
was AO-7.

Here are some statistics from this year and previous years:

2005 2006 2007 2008
Satellites 8 7 5 8
QSO's 120 258 207 220
Stations 11 21 13 17

Watch your mailbox for your copy of the AMSAT Journal and standby for
more Field Day news via ANS.

[ANS thanks Bruce, KK5DO for the above information]

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SB SAT @ AMSAT $ANS-209.04
Cal Poly Requesting Beacon Capture Help

AMSAT News Service Bulletin 209.04
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.04

Jason Anderson, KI6GIV, at California Polytechnic State University is
requesting amateur radio operators worldwide to assist with capturing
the telemetry of the Cal Poly CP4 satellite.

Jason wrote, "We have seen some unpredictable behavior on our satellite,
CP4. Since we only have contact with the satellite once every 12 hours,
it would be extremely helpful if we could get some global support with
collecting beacons to get a more complete picture of the the satellite's
health."

Please send any collected data (audio or decoded binary) via email to:,
jander06@calpoly.edu

Satellite Link Information

Frequency: 437.325Mz
Modulation: FSK (but uses LSB cheat to make AFSK)
Radio Mode: LSB (neccesary for LSB cheat)
Baud Rate: 1200
Beacon rate: 1 beacon/minute (maybe change to 5 minutes if satellite changes
mode)

[ANS thanks Jason, KI6GIV for the above information]

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SB SAT @ AMSAT $ANS-209.05
AMSAT Journal Update

AMSAT News Service Bulletin 209.05
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.05

AMSAT Journal Editor, Ed Long, WA4SWJ reported that the next issue of
the Journal has been delivered to the printer and will be on its way
to your mailbox soon.

Ed reminds members to get busy, "I am PAST DUE for articles for the
next issue. If you have an article you would like to submit to the
Journal please send it as soon as you can to:
journal at amsat dot org."

[ANS thanks Ed, WA4SWJ for the above information]

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SB SAT @ AMSAT $ANS-209.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 209.06
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.06

+ The European Space Agency has announced the commencement of payload
selection for VERTA-1, the Vega second flight. The primary objective
of the VERTA-1 mission is to demonstrate the multiple-payload capa-
bility of the Vega launch system into a low-Earth, Sun-synchronous
orbit in the 500-800 km altitude range. Payload opportunities are
open to any private or public entity, without restriction as to
nationality. For more information see:
http://www.esa.int/SPECIALS/Launchers_Home/SEM3MKXIPIF_0.html

+ FO-29 has been only turned on over Japan for several months as the
ground controllers worked on battery power managment to conserve
this satellite for as long as possible. This past week several
reports have been received that FO-29 has been heard over most of
its orbit in other parts of the world. Frank, VK5MFW reported
contacts with ZL2BX and ZL1BVA. Mak, SV1BSX reported a contact
with SW1JGW and DL6HP. Users are encouraged to continue to be
careful with this satellite's power budget and cease operation
if the downlink signal weakens or experiences FM shifting.

[ANS thanks everyone for the above information]

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SB SAT @ AMSAT $ANS-209.07
ARISS Status Report for the Week of July 21, 2008

AMSAT News Service Bulletin 209.07
>From AMSAT HQ SILVER SPRING, MD.
July 27, 2008
To All RADIO AMATEURS
BID: $ANS-209.07

1. School Contacts

European Space Camp 2008 held at the Zanka Children and Youth Centre
in Zanka, Hungary for the children of ESA employees. had an ARISS
contact on Thursday, July 24. The Hungarian Astronautical Society

(HAS) organized the event. The Radio Club of the Puskas Polytechnic (HA5KHC) provided equipment and support the contact.

United Space School in Seabrook, Texas is slated for an ARISS contact on Wednesday, July 30 via the telebridge station ON4ISS in Belgium. These students come from around the world for a two week session, during which they stay with local host families while being mentored by astronauts, engineers, and scientists to design a mission to Mars as their team project. Class sessions are held at the University of Houston at Clear Lake.

2. Kuwait Science Club Contact Successful

On Monday, July 14, youth attending the Kuwait Science Club participated in an ARISS contact via the telebridge station WH6PN in Hawaii. Greg Chamitoff, KD5PKZ, answered 16 questions posed to him by 12 children and was answering the 17th question when the signal faded out. The audio from this event was fed into the EchoLink AMSAT (101 377) conference room server which received 11 connections from 3 countries. It was also fed into the EchoLink JK1ZRW (277 208) server and into the IRLP Discovery Reflector 9010. More information and the audio file may be found on the ARISS-Europe Web site.
See: http://www.ariss-eu.org/2008_07_15.htm

3. ARISS TIM

The ARISS team is meeting in Moscow this week for a Technical Interchange Meeting (TIM). The conference will be held July 21-23.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

148. WSR-213 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-08-01 01:22:57 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001201c8f375$2e70d990$8b528cb0$@net>
Source record: 828
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-213.S1
WSR 213 Part 1 07/31/2008

AMSAT NEWS SERVICE BULLETIN 213.S1 FROM AMSAT HQ
SILVER SPRING, MD, July 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-213.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsat.in/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[06252007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
V2/u2
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[072408]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB

Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-213.S2
WSR 213 Part 2 07/31/2008

AMSAT NEWS SERVICE BULLETIN 213.S2 FROM AMSAT HQ
SILVER SPRING, MD, July 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-213.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
V2/u2
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[07242008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - Occasianally
BBS - ON
APRS - ON
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-213.S3
WSR 213 Part 3 07/31/2008

AMSAT NEWS SERVICE BULLETIN 213.S3 FROM AMSAT HQ
SILVER SPRING, MD, July 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-213.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-213.S4
WSR 213 Part 4 07/31/2008

AMSAT NEWS SERVICE BULLETIN 213.S4 FROM AMSAT HQ
SILVER SPRING, MD, July 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-213.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-213.S5
WSR 213 Part 5 07/31/2008

AMSAT NEWS SERVICE BULLETIN 213.S5 FROM AMSAT HQ
SILVER SPRING, MD, July 31, 2008
TO ALL RADIO AMATEURS
BID: $ANS-213.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

149. ANS-216 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-08-03 14:21:18 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c8f574$429372b0$c7ba5810$@net>
Source record: 829
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-216

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Falcon-1 Launches from Kwajalein with Three Satellites
* Delfi-C3 / DO-64 Status Update
* FO-29 Analog Transponder Observations
* AMSAT-UK Colloquium Presentations Online
* AMSAT-NA Space Symposium Second Call for Papers
* AMSAT Awards
* ARISS Status - 28 July 2008

SB SAT @ AMSAT $ANS-216.01
Falcon-1 Launches from Kwajalein with Three Satellites

AMSAT News Service Bulletin 216.01
From AMSAT HQ SILVER SPRING, MD.
Augugst 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.01

SpaceX's Falcon-1 rocket lifted off from the Kwajalein atoll on 03 August 2008
at 0334 UTC. On board was the Trailblazer satellite for the Jumpstart Program
of the United States Department of Defense's Operationally Responsive Space Office (ORS). Also on board where two triple-cubesats from NASA which have beacons in the amateur 70cm band. Unfortunately, an anomaly occured approximately 2 minutes 20 seconds into the flight.

[ANS thanks SpaceX for the above information]

/EX

SB SAT @ AMSAT $ANS-216.02
Delfi-C3 / DO-64 Status Update

AMSAT News Service Bulletin 216.02
From AMSAT HQ SILVER SPRING, MD.
Augugst 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.02

Wouter Jan Ubbels, PE4WJ, provided the following
status update of the Delfi-C3 /
DO-64 satellite on behalf of the Delfi-C3 team.

1. We have concluded the first three months of science mission with great success. A big word of thanks to all amateur radio operators around the world for collecting and forwarding telemetry, sending reception reports and observations, and thanks for all the tremendous support we have received. As of today, we have collected 396564 AX.25 frames through the worldwide network... a truly amazing number. Thank you all so much.

2. Delfi-C3 has been switched to permanent transponder mode during the 10:00 UTC pass on July 29th over the Delfi-C3 ground station in The Netherlands. This means that the spacecraft now boots in transponder mode as soon as the spacecraft exits eclipse. This was verified by a successful OBC database dump shortly after that.

3. We plan to switch the satellite back into either basic or science mode, approx. once every 2 weeks for short times during passes over our ground station for housekeeping purposes. During these passes either the 145.870 MHz or 145.930 MHz downlink will be on transmitting 1200 baud BPSK, and the transponder will then be off. We would like to encourage everyone to forward telemetry using RASCAL in the usual way during these passes. Longer periods of BPSK telemetry will be announced on the AMSAT-BB.

4. Reports have indicated a slight frequency offset of the transponder, i.e. an uplink of 435.556MHz corresponds to 145.900MHz in the downlink passband. This was actually known before launch, and is caused by a slight frequency offset in one of the spacecraft's local oscillators. The video on YouTube is a video from the first transponder contact using our "flatsat" transponder prototype in early 2007, which is not the same as the flight model. However, the flatsat prototype also showed a slight frequency offset, as G0MRF pointed out.

5. The transponder mode beacon is at 145.870MHz, approximately 10dB below PEP, transmitting a CW beacon message, followed by a commemorative Sputnik message consisting of 6 dits. Actually, the CW beacon is transmitted using Double Sideband, there are two CW carriers 1200Hz apart. (Guess where that number comes from hi:)

6. Reports on the transponder's operation are more than welcome,
either on the AMSAT-BB (which is read by us on a daily basis) or directly to
info at delfic3.nl

Having said all this, the team is happy to open the transponder for
use, and wishes you good DX. Enjoy!

73 on behalf of the Delfi-C3 team,
Wouter Jan Ubbels PE4WJ

[ANS thanks Wouter, PE4WJ, for the above information]

/EX

SB SAT @ AMSAT $ANS-216.03
FO-29 Analog Transponder Observations

AMSAT News Service Bulletin 216.03
From AMSAT HQ SILVER SPRING, MD.
Augugst 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.03

Domenico, I8CVS, provided the following observation of FO-29's analog
transponder:

Following suggestions of my friend Mak, SV1BSX, I tried FO-29 the
night of 27 July during the South bound orbit 58978. AOS for me
in JN70ES was at 00:06 UTC and FO-29 was in sun light.

I was alone into the passband and my return signal was very strong above
my noise floor with appoximately only 10 watt on a 13 dBi crossed yagi
RHCP / LHCP (about 200 watt EIRP)

The SSB return was very clean and without FMing with the usual need to
switch RHCP to LHCP time to time to get the best signal strength

At 00:15 UTC FO-29 started to experience the eclipse as per InstanTrack
but no sign of reduction of my return signal or FMing was noted.

From 00:15 to 00:21 until my LOS the satellite was over Africa and well
in full eclipse for about 6 minutes but my own return signal was still clear
ad strong without any sign of FMing. It seems that the battery is
working and as far I know the satellite performance seems to be nominal.

The CW beacon was ON all the time.

The transponder is very sensitive so please refrain from using high power
because 200 watt EIRP is more than enough.

I thank very much Mak, SV1BSX, for sending to me the results of his
experience the previous day which confirm the results that I got. Both
confirm that FO-29 seems to be alive and well.

We don't know what JARL did to resurrect this beautiful satellite but
while she will last we have another real CW and SSB satellite to work.

Congratulations to JARL

[ANS thanks Domenico, I8CVS, for the above information]

/EX

SB SAT @ AMSAT $ANS-216.04
AMSAT-UK Colloquium Presentations Online

AMSAT News Service Bulletin 216.04
From AMSAT HQ SILVER SPRING, MD.
Augugst 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.04

Presentations from the AMSAT-UK Colloquium have been added to the to the AMSAT-UK website as
slide shows. There are a couple that have been held back at the request of their presenters.

Currently there are 15 online at:

http://www.uk.amsat.org/content/view/664/235/

You will find some of the 2007 presentations there as well.

[ANS thanks John for the above information]

/EX

SB SAT @ AMSAT $ANS-216.05
AMSAT-NA Space Symposium Second Call for Papers

AMSAT News Service Bulletin 216.05
From AMSAT HQ SILVER SPRING, MD.
Augugst 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.05

This is the second call for papers for the 2008 AMSAT Space Symposium and Annual Meeting to be held October 24-26, 2008 in Atlanta, Georgia.

Proposals for papers, symposium presentations, and poster presentations are invited on any topic of interest to the amateur satellite program. An emphasis
for this year is an educational outreach to middle and high school students. Another topic if interest is using amateur satellite tracking systems to monitor deep space network objects.

In particular, papers on the following topics are solicited:
. Students & Education
. ARISS
. AO-51
. P3E
. Eagle
. Deep Space Network monitoring

. Any additional satellite-related topics.

We request a one-page abstract as soon as possible. Camera ready copy on paper
or in electronic form will be due by September 1, 2008 for inclusion in the printed symposium proceedings. Papers received after this date may not be included in the printed proceedings.

Abstracts and papers should be sent to n8fgv@amsat.org

[ANS thanks Dan, N8FGV, for the above information]

/EX

SB SAT @ AMSAT $ANS-216.06
AMSAT Awards

AMSAT News Service Bulletin 216.06
From AMSAT HQ SILVER SPRING, MD.
Augugst 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.06

We would like to welcome the following to the satellite community. They have made their first satellite contact and are now members of the AMSAT Satellite Communicators Club.

Bart Tichelaar, KE5GUR
Supun Perera, VE4WSP

The following has earned the AMSAT South Africa Communications Achievement Award.

Rob Rousseau, KI4BKE #US122

The following has earned the AMSAT Sexagesimal Award for 60 contacts.

Doug Papay, KD8CAO #146

To see all the awards visit http://www.amsat.org or
http://www.amsatnet.com

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-216.07
ARISS Status - 28 July 2008

AMSAT News Service Bulletin 216.07
From AMSAT HQ SILVER SPRING, MD.
August 3, 2008
To All RADIO AMATEURS
BID: $ANS-216.07

1. European Space Camp 2008 Contact Successful

On Thursday, July 24, youth attending the European Space Camp 2008 in Zanka, Hungary participated in an Amateur Radio on the International Space Station (ARISS) contact. Astronaut Greg Chamitoff, KD5PKZ, answered the six questions
asked of him as 120 students looked on. The audio from this event was fed into
the EchoLink AMSAT (101 377) conference room server and received 8 connections
from 7 countries including Hungary, Switzerland, Belgium and the U.S. It was
also fed into the EchoLink JK1ZRW (277 208) server. The audio file may be found
on the ARISS-Europe Web site. Go to:
http://www.ariss-eu.org/Zanka_2008_07_24.mp3

2. ARRL QST Articles on ARISS Activities

The American Radio Relay League (ARRL) published two items covering Amateur Radio on the International Space Station (ARISS) related news in its August issue of QST.

A column called "Hams Head into Space" (page 55) included amateur radio activities that Greg Chamitoff, KD5PKZ, plans to take part in and also activities in which Garrett Reisman, KE5HAE, participated.

The column "75, 50 and 25 Years Ago" on page 102 showed the QST August 1983 cover with astronaut Owen Garriott, W5LFL's picture operating the radios from
space for the very first space amateur radio contacts ever.

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

150. Radio Meteor Obs. Bull. July 2008

Newsgroup: rec.radio.amateur.space
Date: 2008-08-07 21:01:27 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <9kom94pm1a7tu6jqc41l3l0s6ol3ucoahi@4ax.com>
Source record: 830
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 180 of July 2008 (63 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0807.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

151. WSR-220 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-08-08 01:50:39 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001901c8f8f9$46e977f0$d4bc67d0$@net>
Source record: 831
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deorbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-220.S1
WSR 220 Part 1 08/07/2008

AMSAT NEWS SERVICE BULLETIN 220.S1 FROM AMSAT HQ
SILVER SPRING, MD, August 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-220.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[08072008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB

Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE

145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-220.S2
WSR 220 Part 2 08/07/2008

AMSAT NEWS SERVICE BULLETIN 220.S2 FROM AMSAT HQ
SILVER SPRING, MD, August 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-220.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[08072008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - OFF ?
Voice - V/v
BBS - V/v ?
APRS - V/v ?
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-220.S3
WSR 220 Part 3 08/07/2008

AMSAT NEWS SERVICE BULLETIN 220.S3 FROM AMSAT HQ
SILVER SPRING, MD, August 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-220.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-220.S4
WSR 220 Part 4 08/07/2008

AMSAT NEWS SERVICE BULLETIN 220.S4 FROM AMSAT HQ
SILVER SPRING, MD, August 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-220.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-220.S5
WSR 220 Part 5 08/07/2008

AMSAT NEWS SERVICE BULLETIN 220.S5 FROM AMSAT HQ
SILVER SPRING, MD, August 07, 2008
TO ALL RADIO AMATEURS
BID: $ANS-220.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

152. ANS-223 AMSAT News Service Weekly News Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-08-10 14:37:46 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c8faf6$bc70b160$35521420$@net>
Source record: 832
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-223

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Falcon-1 Launch Failure
* THE PERSEID METEOR SHOWER ON AUGUST 12
* "Nanosputnik" Cubesat "Polar Lights"
* ARISS Status - August 4, 2008
* Satellite Shorts
* AMSAT-UK Colloqium

SB SAT @ AMSAT $ANS-223.01
Falcon-1 Launch Failure

AMSAT News Service Bulletin 223.01
From AMSAT HQ SILVER SPRING, MD.
Augugst 10, 2008
To All RADIO AMATEURS
BID: $ANS-223.01

SpaceX's Falcon-1 rocket lifted off from the Kwajalein atoll on 03 August 2008 at 0334 UTC. On board was the Trailblazer satellite for the Jumpstart Program of the United States Department of Defense's Operationally Responsive Space Office (ORS). Also on board where two triple-cubesats, PRESAT & NANOSAIL-D, from NASA which had beacons in the amateur 70cm band.

Unfortunately, an anomaly occured approximately 2 minutes 20 seconds into the flight. The engineers said the rocket stages did not separate and the second stage did not ignite.

SpaceX has announced that the problem with the last launch was that the first stage regenerative engine continued burning longer than they expected. It therefore bumped into the second stage after separation. A new downward looking video that includes this action is available at:

http://mfile.akamai.com/22165/wmv/spacex.download.akamai.com/22165/F1-003.asx

[ANS thanks SpaceX and Bruce, VE9QRP, for the above information]

/EX

SB SAT @ AMSAT $ANS-223.02
THE PERSEID METEOR SHOWER ON AUGUST 12

AMSAT News Service Bulletin 223.02
From AMSAT HQ SILVER SPRING, MD.
Augugst 10, 2008
To All RADIO AMATEURS
BID: $ANS-223.02

HAM RADIO IN SPACE: THE PERSEID METEOR SHOWER ON AUGUST 12

Meteor scatter enthusiasts attention. The annual Perseid meteor shower peaks on Tuesday, August 12th. The best time to see them and make contact by bouncing signals off their ionized tails is during the dark hours before dawn on Tuesday morning when forecasters expect 50 to 100 meteors per hour.

The source of the Perseids is Comet Swift-Tuttle, which has littered the August portion of Earth's orbit with space dust. The dusty zone is broad and Earth is already in its outskirts. As a result, even before the peak on August 12th, you may see some "early Perseids" streaking across the night sky. (VHF Reflector)

[ANS thanks ARRL for the above information]

/EX

SB SAT @ AMSAT $ANS-223.03
"Nanosputnik" Cubesat "Polar Lights"

AMSAT News Service Bulletin 223.03
From AMSAT HQ SILVER SPRING, MD.
Augugst 10, 2008
To All RADIO AMATEURS
BID: $ANS-223.03

I am asked by Alexander Zaitev RW3DZ of the Izmiran Institute, in Troitsk outside Moscow, Russia, to publicise his proposed "Nanosputnik" Cubesat "Polar Lights."

FYI the Izmiran Institute made the first spaceborne magnetometer, on Sputnik-3 in 1958. It is at:

http://www.izmiran.ru

RW3DZ recently referred to the Nanosputnik Cubesat in a blog at:

http://www.vhfdx.ru/sputnikovaya-svyaz/50-let-kosmicheskoy-eryi

and on his website at

http://rk3dxb.narod.ru/polar_lights.html

He is establishing a team within the promotion of amateur radio to young people around the RK3DKB club shack at Troitsk. John G7HIA and I were welcomed there last Sunday.

The Nanosputnik is proposed to be built on a 10cm Cubesat frame and to weigh 1 Kg. Command uplink will be in 2 metres and data downlink at various data rates in 70cms, there are precise frequencies given but it is probably unwise for me to give them out at this stage as the satellite is not built yet and I do not know whether IARU frequency coordination has been undertaken. There may be an experimental 5 GHz beacon.

The proposed payload is a unique magnetometer which will detect fluctuations along the flux lines of the magnetosphere and will be oriented along the flux lines within 1 degree by an on-board GLONASS/GPS.

Data sampling will be 1 observation/second and he is interested in downloading every quarter orbit into the GENSO network.

There is also scope for a CCD camera and cosmic ray detector.

Orbital life is estimated as 3 years with rechargeable batteries and a solar panel charging system.

I do not have any information about launch opportunities.

John G7HIA and I will continue to work with RW3DZ and will bring any other information we have to this bb as we get it, although we are not responsible for this Nanosputnik in any way whatsoever.

[ANS thanks Andy, G0SFJ for the above information]

/EX

SB SAT @ AMSAT $ANS-223.04
ARISS Status - August 4, 2008

AMSAT News Service Bulletin 223.04
From AMSAT HQ SILVER SPRING, MD.
August 10, 2008
To All RADIO AMATEURS
BID: $ANS-223.04

1. Upcoming School Contacts

Two simulated Amateur Radio on the International Space Station (ARISS) contacts are scheduled for Tuesday, August 5 with U.S. deployed soldier dependents visiting Euro Space Camp (ESC) in Belgium. These training

sessions are terrestrial-based amateur radio contacts using ARISS-equivalent equipment. There will be EchoLink and IRLP coverage of both contacts.

. The first simulated contact is scheduled with Koichi Wakata, KC5ZTA, at approximately 14:20 UTC.
. The second simulated contact will take place with astronaut Soichi Noguchi, KD5TVP, at approximately 14:50 UTC.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with Town of Berkeley Heights, New Jersey, Summer Playground Camp on Wednesday, August 13 at 16:08 UTC. The New Providence Amateur Radio Club has been involved with this camp for the last four years. It has provided an introduction to ham radio on the air by setting up HF and VHF stations and having the campers communicate with hams around the world. The ARISS contact will be an extension of this activity.

2. United Space School Contact Successful

An international group of high school students attending United Space School in Seabrook, Texas experienced an Amateur Radio on the International Space Station (ARISS) contact on Thursday, July 31. Telebridge station ON4ISS in Belgium facilitated the contact. Twelve students had16 questions answered by astronaut Greg Chamitoff, KD5PKZ. The audio for this event was fed into the EchoLink AMSAT (101 377) server, receiving 10 connections and it was also fed into the JK1ZRW (277 208) server.

3. ARISS Meetings Held

The annual Amateur Radio on the International Space Station (ARISS) Face to Face Meeting was held in Moscow on July 17-18. Status reports were given by all committees and the election of officers was held. This meeting was preceded by the first Amateur Radio Working Group (ARWG) conference and was followed by a Technical Interchange Meeting (TIM) on July 21-23 where discussions covered SuitSat-2 and ARISS hardware. A final meeting was held at the Gagarin Cosmonauts Training Centre (GCTC) to discuss astronaut training on the ARISS equipment. All meetings were successful, much was accomplished and minutes will be available in the near future.

4. NASA Posts ARISS Article to Web Site

An Amateur Radio on the International Space Station (ARISS) article has been written and posted to NASA Web sites. Several ARISS members were interviewed for the story, including astronaut Bill McArthur, KC5ACR. "Communication From Space Inspires Young Minds" may be found at: http://www.nasa.gov/mission_pages/station/behindscenes/index.html (and on the Kennedy site http://www.nasa.gov/centers/kennedy/news/index.html under "Features").

[ANS thanks Carol, KB3LKI, for the above information]

/EX

SB SAT @ AMSAT $ANS-223.05
Satellite Shorts

AMSAT News Service Bulletin 223.05
From AMSAT HQ SILVER SPRING, MD.
August 10, 2008
To All RADIO AMATEURS
BID: $ANS-223.05

Satellite Shorts From All Over

+ Congratulations are in order for Rafael, XE2RV on attaining VUCC number 164 in satellite mode.

+ John, KD6PAG will be in Scotland from 13 August - 2 September, with 16 August - 21 August 08 in the Shetland Islands. He'll primarily be trying to work the eastern Canada and northeastern parts of the US via satellite. He'll include European passes time permitting. John will be running QRP with a portable antenna similar to an Arrow antenna.

+ The Mid-Atlantic States VHF Conference on Saturday September 27 in Blue Bell, PA will include a presentation by Bob, N4HY to discuss Software Defined Radio Advancements. Also included in this weekend is the HAMARAMA hamfest on Sunday, September 28. For more information see http://www.packratvhf.com.

+ AO-51 ground controllers have been able to boost the downlink power due to increased solar illumination. Both repeaters were reported to be operating at around 400 mW this week in dueal V/U mode.

+ AMSAT area coordinator, Clint Bradford, K6LCS, demonstrated operating via AO-51 and gave his "How to Work Ham Satellites with your HT" presentation in Tarzana, CA, on Saturday morning, August 9. Clint has a 4 page satellite operating tutorial available on-line at: http://homepage.mac.com/clintbradford/Menu3.html.

+ AMSAT received the sad news that Doug Beckwith N4CZT, an avid fan and supporter of Amsat, passed away Sun. July 27 2008. He was 1 day from his 65th birthday. His son, Douglas, wrote to AMSAT, "Thanks for helping him follow his dream."

+ RA3OE reported the first QSO between Russian and Eurasia via DELFI-C3 (DO-64) on August 3 when he had a QSO with Anatoly, UA9UIZ.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-223.06
AMSAT-UK Colloqium

AMSAT News Service Bulletin 223.06
From AMSAT HQ SILVER SPRING, MD.
August 10, 2008
To All RADIO AMATEURS
BID: $ANS-223.06

AMSAT-UK Colloqium Presentation Videos Available On-Line

The Mars Orbiter P5-A Presentation video (lecture 10) is now on the BATC website. To access the videos go to http://www.batc.tv/ and click on the 'Archive' icon on the left. Select which AMSAT-UK lecture you wish to watch then click the 'Play' icon. An additional feature allows you to click on the icon between the 'Progress' bar and the 'Volume' bar to get full screen viewing.

Lectures 4 and 5 are about the MoonLITE project which will be the first Lunar mission by the United Kingdom.

Lectures 6, 7 and 8 are about the Delfi-C3 satellite

Lecture 9 is the P3-E satellite presentation given by AMSAT-DL President Peter Guelzow DB2OS, see also 'Get into Orbit with AMSAT-DL's P3E-Satellite' at http://www.p3e-satellite.org/index.pl?lang=en_EN

Lecture 10 will be the Amateur Radio Mars Orbiter P5-A given by Achim Vollhardt DH2VA, see also 'GO-Mars with AMSAT-DL's P5A Mission' at http://ticket-to-mars.org/index.pl?lang=en_EN

Other video presentations planned to be added include:

Lecture 11 will be the Delfi-n3Xt next generation satellite presentation.

Lecture 12 will be the presentation on the new GB4FUN vehicle given by Carlos Eavis G0AKI

Lecture 13 will be the 2.3/3.4/5.6GHz Signal Generator for Satellite Applications by Grant Hodgson G8UBN

Lectures 14/15 will be the Band planning for satellite operations on frequencies in the Amateur Service by Hans van de Groenendaal ZS6AKV, President AMSAT-SA followed by the IARU Satellite Forum.

The full lecture programme (with video lecture numbers) can be seen at: http://www.uk.amsat.org/content/view/640/213/

The PowerPoint presentation slides can be viewed at: http://www.uk.amsat.org/content/view/664/235/

Pictures from the event can be seen at: http://www.uk.amsat.org/gallery2

[ANS thanks Trevor, M5AKA for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

153. ANS-230 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-08-17 01:25:41 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001601c90008$53541ed0$f9fc5c70$@net>
Source record: 833
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-230

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** http://www.amsat.org/amsat-new/symposium/2008/index.php ***
****

In this edition:

* 2008 AMSAT North America Space Symposium and BoD Meeting
* Volunteers Needed for AMSAT Booth at ARRL New England Convention
* COMPASS-1 CubeSat in Emergency Mode - Telemetry Reports Needed
* NASA Amateur Radio Digital Learning Network Lesson Plans Available
* AMSAT Leadership Meeting
* WA3GOV SK
* ARISS Status Report for the Week of August 11, 2008

SB SAT @ AMSAT $ANS-230.01
2008 AMSAT North America Space Symposium and BoD Meeting

AMSAT News Service Bulletin 230.01
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.01

2008 AMSAT North America Space Symposium
24-26 October 2008, Atlanta, Georgia - Call for Papers

This is the second call for papers for the 2008 AMSAT Space Symposium and Annual Meeting to be held October 24-26, 2008 in Atlanta, Georgia.

Proposals for papers, symposium presentations, and poster presentations are invited on any topic of interest to the

amateur satellite program. An emphasis for this year is an
educational outreach to middle and high school students.
Another topic if interest is using amateur satellite tracking
systems to monitor deep space network objects.

In particular, papers on the following topics are solicited:
o Students & Education
o ARISS
o AO-51
o P3E
o Eagle
o Deep Space Network monitoring
o Any additional satellite-related topics.

We request a one-page abstract as soon as possible. Camera
ready copy on paper or in electronic form will be due by
September 1, 2008 for inclusion in the printed symposium proceedings.
Papers received after this date may not be included in the printed
proceedings.

Abstracts and papers should be sent to n8fgv@amsat.org

Gould, WA4SXM also said this week, "Just as a reminder to all, the
AMSAT Board meetings at the Symposium are an open meeting, other
than a short segment that is a performance review. You can attend
and listen to the entire meeting. This year's meeting in Atlanta
will begin Thursday morning 23 Oct and go into the evening (and
sometimes after dinner), then resume Friday morning 24 Oct and go
until around noon. The Board would welcome your interest."

[ANS thanks the 2008 Symposium Committe and Gould, WA4SXM for the
above information]

/EX

SB SAT @ AMSAT $ANS-230.02
Volunteers Needed for AMSAT Booth at ARRL New England Convention

AMSAT News Service Bulletin 230.02
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.02

Volunteers are needed to man the booth at the 2008 ARRL New England
Convention in Boxboro, Friday August 22 through Sunday August 24. If
you plan on attenting and have some spare time, please consider vol-
unteering to work the AMSAT booth.

Full information about the convention can be found at:
http://www.boxboro.org/

Please drop Steve, N1JFU an email (smeuse@mara.org) with your avail-
ability for either Saturday or Sunday. There will be an AMSAT presen-

tation from 10am-12noon on Saturday organized by Barry Baines, WD4ASW.

[ANS thanks Steve, N1JFU for the above information]

/EX

SB SAT @ AMSAT $ANS-230.03
COMPASS-1 CubeSat in Emergency Mode - Telemetry Reports Needed

AMSAT News Service Bulletin 230.03
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.03

Since Sunday, the COMPASS-1 CubeSat has been in emergency mode. The battery voltage is very low and the satellite is rebooting every pass. The CW beacon is on in sunlight - but it only transmits on 8 minute intervals.

A hard-reset of the satellite has occurred, which brought the satellite back into a vicious circle: Once the heater is being switched on, the battery power drops drastically, which causes another hard-reset. This goes on and on. The only chance to recover the satellite is to avoid the activation of the heater. This can be done by adjusting threshold values.

The COMPASS team needs as much telemetry as possible. Amateur radio stations around the world are asked to listen to the COMPASS downlink on 437.275 MHz. Any reports will be appreciated. You can find a simple CW telemetry decoder at: http://www.dk3wn.info/software.shtml. MP3 or WAV files would also provide useful information.

Please send your reports to compass1cubesat@googlemail.com.

The latest Keplerian tracking data is:

COMPASS-1
1 32787U 08021E 08226.19180743 .00000095 00000-0 19031-4 0 1184
2 32787 097.9841 285.9110 0015365 316.5637 043.4362 14.81444724 15843

[ANS thanks Mike, DK3WN for the above information]

/EX

SB SAT @ AMSAT $ANS-230.04
NASA Amateur Radio Digital Learning Network Lesson Plans Available

AMSAT News Service Bulletin 230.04
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.04

To help prepare the students for an ARISS experience, NASA has generated a series of teaching modules for the students. They have three different packages available suitable for students in K-4, 5-8 and 9-12 grades (for folks outside the US, "K" is Kindergarten at age ~5, and Grades 1-12 are for ages ~6-18).

The lesson plan packages are described and available from NASA's Digital Learning Network (DLN) at:
http://dln.nasa.gov/dln/content/catalog/details/?cid=634.

[ANS thanks Tom, K3IO for the above information]

/EX

SB SAT @ AMSAT $ANS-230.05
AMSAT Leadership Meeting

AMSAT News Service Bulletin 230.05
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.05

The AMSAT board members (current and future) and AMSAT senior officers participated in an AMSAT strategy meeting at a BWI airport hotel, Saturday and Sunday August 9 & 10, 2008.

The purpose was to discuss the future direction of AMSAT and things we want to accomplish as an organization during the next 16 months and beyond.

Drew, KO4MA is writing an article about the meeting for the July/August 2008 AMSAT Journal.

Action plans will be developed at the 2008 AMSAT Board meeting Oct 23-24, 2008 which precedes the AMSAT Symposium in Atlanta, Oct 24-25, 2008. An outline of the items discussed will be available from the front page of the AMSAT web site.

[ANS thanks Gould, WA4SXM for the above information]

/EX

SB SAT @ AMSAT $ANS-230.06
WA3GOV SK

AMSAT News Service Bulletin 230.06
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.06

AMSAT Headquarters received the news below. Martha said, "It is with great sadness that I report the death of Howard Ziserman, WA3GOV at the age of 55."

For many years, Howard served as the Area Coordinator for MD & VA. He volunteered for EVERY hamfest in this area, sometimes traveling over 100 miles away.

He had a love for the Space Program working at the NASA Bioprocessing and Pharmaceutical Research Center in Philadelphia in the early 80's. When he moved to MD in 1989,he combined his love of education and space working on Space Shuttle Mission STS-94 and later on the ARISS program.

Howard had a B.A. from Cornell, a B.E. in EE from Johns Hopkins, an M.S. in Chemistry from U of MD. His dream was to get his PhD and so he left MD in 2001 for Kansas City. There he received his PhD in December of 2006

[ANS thanks Martha at AMSAT HQ for the above information]

/EX

SB SAT @ AMSAT $ANS-230.07
ARISS Status Report for the Week of August 11, 2008

AMSAT News Service Bulletin 230.07
>From AMSAT HQ SILVER SPRING, MD.
August 17, 2008
To All RADIO AMATEURS
BID: $ANS-230.07

1. School Contacts

An ARISS contact was held the with Town of Berkeley Heights, New Jersey, Summer Playground Camp on Wednesday, August 13. The New Providence Amateur Radio Club has been involved with this camp for the last four years. It has provided an introduction to ham radio on the air by setting up HF and VHF stations and having the campers communicate with hams around the world. The ARISS contact will be an extension of this activity.

An ARISS contact has been slated for Thursday, August 21 at 14:55 UTC with Los Padres Council Troop 105 in Santa Barbara, California. Boy Scouts, ages 12-17 will work on their Astronomy, Space Exploration and Radio Merit Badges. Cub Scout units will have materials available to work on the Astronomy and Science belt loops and Astronomy and Science academic pins. The University of California, Santa Barbara (UCSB) Physics Department will make available its astronomy observation deck for the contact and will provide faculty members to instruct the Scouts. The Scouts will be presented with information on the ISS and its crew to prepare them for this activity and the media will be notified.

2. Training Session Contact Scheduled

A simulated ARISS contact has been scheduled for Tuesday, August 12 at approximately 14:00 UTC between ESA astronaut Andre Kuipers, PI9ISS, and youth attending the European Space Camp (ESC) in Belgium. This training session is a terrestrial-based amateur radio contact using

ARISS-equivalent equipment. EchoLink and IRLP coverage is expected.

3. Terrestrial Contacts Successful

Two simulated ARISS contacts were scheduled for Tuesday, August 5 between U.S. deployed soldier dependents visiting the European Space Center (ESC) in Belgium and astronauts Koichi Wakata, KC5ZTA and Soichi Noguchi, KD5TVP. The NASA Johnson Space Center was closed due to tropical storm Eduardo which caused the training sessions to be cancelled. Astronaut Mike Fincke, KE5AIT, stepped in to speak with the youth and answered one question from each of the thirty students. Audio will be posted on the ARISS-Europe Web site when available.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

154. new www page raport AO51/AO27/SO50/GO32

Newsgroup: rec.radio.amateur.space
Date: 2008-08-23 21:34:15 UTC
From: Adrian Szumilas <szumiksp8aqk@poczta.onet.pl>
Message-ID: <g8pvot$u3d$1@news.onet.pl>
Source record: 834

http://www.sp7thr.csm.pl/AO-51/

http://www.sp7thr.csm.pl/AO-27/

http://www.sp7thr.csm.pl/SO-50/

http://www.sp7thr.csm.pl/GO-32/

155. WSR-234 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-08-27 14:46:14 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c90853$abc78fe0$0356afa0$@net>
Source record: 835
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-234.S1
WSR 234 Part 1 08/21/2008

AMSAT NEWS SERVICE BULLETIN 234.S1 FROM AMSAT HQ
SILVER SPRING, MD, August 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-234.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/s
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[08212008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB

Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE

145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites

Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-234.S1
WSR 234 Part 1 08/21/2008

AMSAT NEWS SERVICE BULLETIN 234.S1 FROM AMSAT HQ
SILVER SPRING, MD, August 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-234.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational - Software reload

Current Modes: FM Repeater - V/s
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[08212008]
=====

SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP

U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-234.S3
WSR 234 Part 3 08/21/2008

AMSAT NEWS SERVICE BULLETIN 234.S3 FROM AMSAT HQ
SILVER SPRING, MD, August 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-234.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]

=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)

Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]

=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575

Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM

[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-234.S4
WSR 234 Part 4 08/21/2008

AMSAT NEWS SERVICE BULLETIN 234.S4 FROM AMSAT HQ
SILVER SPRING, MD, August 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-234.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:

http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-234.S4
WSR 234 Part 4 08/21/2008

AMSAT NEWS SERVICE BULLETIN 234.S4 FROM AMSAT HQ
SILVER SPRING, MD, August 21, 2008
TO ALL RADIO AMATEURS
BID: $ANS-234.S4

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-

mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

156. ANS-237 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-08-27 17:03:56 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000501c90851$1b374530$51a5cf90$@net>
Source record: 836
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-237

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Symposium Registrations On The Web
* AMSAT Office Closed Aug. 25 - Sept. 2
* ARISS Contact Video Available
* ARISS Status - 18 August 2008

SB SAT @ AMSAT $ANS-237.01
AMSAT Symposium Registrations On The Web

AMSAT News Service Bulletin 237.01
From AMSAT HQ SILVER SPRING, MD.
August 24, 2008
To All RADIO AMATEURS
BID: $ANS-237.01

2008 AMSAT Symposium registration is now available via the AMSAT store.
The 2008 AMSAT Space Symposium and Annual Meeting will be held October
24-26, 2008 in Atlanta, Georgia. Please join us to learn about the latest
information on AMSAT programs and technical amateur satellite related
topics. Information can be found on the AMSAT web site at
http://www.amsat.org .

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-237.02
AMSAT Office Closed Aug. 25 - Sept. 2

AMSAT News Service Bulletin 237.02
From AMSAT HQ SILVER SPRING, MD.
August 24, 2008
To All RADIO AMATEURS
BID: $ANS-237.02

The AMSAT office will be closed from Monday, August 25th through Tuesday September 2nd. I am going on vacation!!!

73- Martha

[ANS thanks Martha for the above information]

/EX

SB SAT @ AMSAT $ANS-237.03
ARISS Contact Video Available

AMSAT News Service Bulletin 237.03
From AMSAT HQ SILVER SPRING, MD.
Augugst 24, 2008
To All RADIO AMATEURS
BID: $ANS-237.03

On August 19, the Santa Barbara Amateur Radio Club (SBARC) made it possible for a local Boy Scout troop (Los Padres Council Troop 105) to contact the International Space Station live via ham radio! The event began at 8:39 AM local time and lasted about 10 minutes. The contact was made at the request of Dr. Gregory Errol Chamitoff Ph.D. (KD5PKZ) an astronaut currently stationed on the ISS. Dr. Chamitoff is an alum of Cal Poly San Luis Obispo and is friends with assistant scout master John Schlesselmann. Several folks, including local hams and staff of the UC Santa Barbara physics department organized the event

Two video recordings of the successful ARISS Contact are available.

http://nasa.id.ucsb.edu/
This was recorded by the University of California Santa Barbara

http://sbarc.camstreams.com/
This was recorded by WB9KMO and is playing constantly on a continuous loop.

Ken Owen, N6KTH, reports that, "We had a great contact today and even had a chance to do an AO51 demo right before the ISS pass." More information about the contact is available on Ken's web page (www.n6kth.com)

[ANS thanks Ken, N6KTH, for the above information]

/EX

SB SAT @ AMSAT $ANS-237.04
ARISS Status - 18 August 2008

AMSAT News Service Bulletin 237.04
From AMSAT HQ SILVER SPRING, MD.
August 24, 2008
To All RADIO AMATEURS
BID: $ANS-237.04

1. Upcoming School Contacts

Schulehaus Feld 1 in Richterswil, Switzerland has been scheduled for an Amateur
Radio on the International Space Station (ARISS) contact on Saturday, August 30
at 13:50 UTC. Telebridge station VK4KHZ in Queensland, Australia will assist with the contact. Fifth graders covered the solar system and space in their studies and prepared questions during their English classes. The ARISS contact
will be part of a large public event covering several aspects of communication.
The school will be part of a project involving radio clubs, the army, the fire
brigade, rescue teams and many others. Reporters
from newspapers, television and
radio stations will be on site.

2. New Jersey Experienced Successful Contact

On Wednesday, August 13, the Town of Berkeley Heights, New Jersey Summer Playground Camp participated in an Amateur Radio on the International Space Station (ARISS) contact. Greg Chamitoff, KD5PKZ, answered 16 questions of 10
campers, including two counselors, with 200
people in attendance. Sergei Volkov
also participated, answering one spacewalk
question. There was media coverage of
the event. To view the Alternative Press article, go to:
http://thealternativepress.blogspot.com/2008/08/local-space-chat-with-astronaut-
greg.html

A video was taken of the event and posted on YouTube. See:
http://www.youtube.com/watch?v=azBvExXlbsY

3. Training Session Contact Successful

An Amateur Radio on the International Space Station (ARISS) training session with European Space Agency (ESA) astronaut Andre Kuipers took place on Tuesday,
August 12. Kuipers, training at Johnson Space Center (JSC), spoke with students
attending the European Space Camp (ESC) in Belgium and answered all twenty questions posed to him. The audio of this

contact was available on the Internet
Radio Linking Project (IRLP) Discovery Reflector.

4. ESC Radio Session Update

Astronaut Mike Fincke, KE5AIT, spoke with U.S. deployed soldier dependents visiting the European Space Center (ESC) in
Belgium on August 5. The terrestrial
contact was arranged by the U.S. Army Installation Management Command (IMCOM) -
Europe Region. IMCOM thanked ARISS for the contact and posted an audio file of
the event to its Web site. To listen to the question and answer session, click
on the following link and scroll to "Radio Highlights."
http://www.imcom-europe.army.mil/sites/local/

5. Reisman Debrief Held

On Wednesday, August 13, an Amateur Radio on the International Space Station (ARISS) debrief session was held with Garrett
Reisman, KE5HAE. Valuable feedback
was provided to the ARISS team. Reisman was a
flight engineer on Expeditions 16
and 17.

6. Ham Radio Module Available on NASA DLN

The new NASA amateur radio Digital Learning Network (DLN) module is now available. Information has been posted on the NASA Web site. See:
http://dln.nasa.gov/dln/content/catalog/details/?cid=634

7. ARISS on NASA ISS Science Site

NASA has posted updated information on the Amateur Radio on the International
Space Station (ARISS) program to its International Space Station science site.
See:
http://www.nasa.gov/mission_pages/station/science/experiments/ARISS.html

8. ARRL Posts Article on ARISS

The American Radio Relay League (ARRL) posted the
notice "ARISS Team Looking for
Ground Stations" in the ARRL Letter. See:
http://www.arrl.org/arrlletter/08/0815/

9. ARRL QST Posts ARISS News

The American Radio Relay League (ARRL) posted
Amateur Radio on the International
Space Station (ARISS) related activities in its September issue of QST.

Two items were listed in the column "Media Hits" on page 12.
One news story was about the Austin Amateur Radio Club sponsoring "the ARISS contact with Blackland Prairie Elementary School and Cub Scout Pack 304 covered
by Fox 7 News, KVUE 24 News and News 8 Austin."

Another story covered the Electronic Engineering
Times who printed "an Under the
Hood feature, 'Extreme Design: SuitSat pushes engineers' limits' which highlighted Amateur Radio technologies, engineering, and ARISS."

10. ARISS Member Gives Presentation on Ham Radio and Kids

Amateur Radio on the International Space Station (ARISS) member and Radio Amateur Satellite Corporation (AMSAT) area coordinator Keith Pugh, W5IU, gave a
presentation on amateur radio, space and kids at the 2006 Dayton Hamvention. An
excerpt of his talk may be found on the Radio
Amateur Information Network (RAIN)
report for the week of August 15, 2008. To listen, go to
http://www.therainreport.com/

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

157. lot #3 old radio estate sale items-tube CB's-RF generator-SWR/RF meter-more

Newsgroup: rec.radio.amateur.space
Date: 2008-08-29 11:28:54 UTC
From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Message-ID: <8e8ebba4-2585-4ba0-a73c-43d93a2196c3@z72g2000hsb.googlegroups.com>
Source record: 837

http://search.ebay.com/_W0QQfgtpZ1QQfrppZ25QQsassZ66Q2dcatalina

SILVERTONE VINTAGE ANTIQUE TUBE RADIO-BAKELITE-works-$$ - $9.98
$20.00 6d 14h 28m
STARLITE MINI ANTIQUE VINTAGE TUBE RADIO-powersup-works - $9.98
$10.00 6d 14h 28m
RCA VINTAGE ANTIQUE HI-FI AM/FM TUNER-TUBE AMPED-RARE-$ - $9.98
$20.00 6d 14h 28m
FIRESTONE VINTAGE WOOD RADIO-TUBE AMPED-POWERS UP-$$$$$ - $9.98
$20.00 6d 14h 28m
VINTAGE PLASTIC BAKELITE OLYMPIC TUBE RADIO-IT WORKS !! - $9.98
$20.00 6d 14h 28m
ARVIN MOD.544A WHITE BAKELITE TUBE RADIO-AM/FM-c.1947-$ - $9.98
$15.00 6d 14h 28m
EMERSON BAKELITE TUBE RADIO-tested/working-antique-$$$$ - $9.98
$15.00 6d 14h 28m
RADIOLA PLASTIC BAKELITE RADIO-TUBE-model 61-8-powersUP - $9.98
$20.00 6d 14h 28m
STROMBERG CARLSON ANTIQUE TUBE RADIO-PARTS/FIX-$$$$$$$$ - $9.98
$15.00 6d 14h 28m
ADMIRAL 6Q12N VINTAGE ANTIQUE BAKELITE RADIO-TUBES-$$$$ - $9.98
$15.00 6d 14h 28m
RCA VICTOR TUBE AMPED RADIO-mod 1X592-clear sound-works - $9.98
$20.00 6d 14h 28m
ANTIQUE ZENITH BAKELITE PLASTIC RADIO-IT WORKS !!-$$$$$ - $9.98
$20.00 6d 14h 28m
MOTOROLA BAKELITE PLASTIC RADIO/CHASSIS-for parts/fix-$ - $9.98
$15.00 6d 14h 28m
HEATHKIT PRECISION FIELD STRENTH-SWR-XTAL METER-HAM/CB- - $24.99
$15.00 6d 14h 28m
HEATHKIT PRECISION FIELD STRENTH-SWR-XTAL METER-HAM/CB- - $24.99
$15.00 6d 14h 28m
DELCO AM/FM/SHORTWAVE FRONT DIAL GLASS/PANEL-NICE-$$$$$ - $9.98
$20.00 6d 14h 28m
DEVRY RF SIGNAL GENERATOR-RADIO HOBBYIST ESTATE SALE-$$ - $9.98
$15.00 6d 14h 28m
DEVRY RF SIGNAL GENERATOR-RADIO HOBBYIST ESTATE SALE-$$ - $9.98
$15.00 6d 14h 28m
(2) VINTAGE TUBE CLOCK RADIOS-GE and ARVIN-both working - $9.98
$25.00 6d 14h 28m
LAFAYETTE HB-111 VINTAGE ANTIQUE TUBE AMPED CB RADIO-$$ - $9.98
$20.00 6d 14h 28m
LAFAYETTE COMSTAT-25 VINTAGE TUBE CB RADIOS-8 CHANNEL-$ - $9.98

$20.00 6d 14h 28m

158. ANS-244 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-09-01 01:01:11 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c90bcd$d5672e00$80358a00$@net>
Source record: 838
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-244

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Looming Deadline
* W4AXX Silent Key
* AO-51 Ops
* ARISS Status - 28 August 2008

SB SAT @ AMSAT $ANS-244.01
Looming Deadline

AMSAT News Service Bulletin 244.01
From AMSAT HQ SILVER SPRING, MD.
August 28, 2008
To All RADIO AMATEURS
BID: $ANS-244.01

Notice to all AMSAT members: The AMSAT Board of Directors Voting is ongoing. It is an important obligation on your part to return your selection for the BOD to AMSAT no later than September 15th. This will insure our election process has fulfilled its terms and conditions for the future of our organization.
Read the candidate's background information as has been provided and pick your choice on the ballot. The mailing last July went to all members in good standing. The deadline is only 2 weeks away. Your vote could be the deciding factor.

[ANS thanks AMSAT for the above information]

/EX

SB SAT @ AMSAT $ANS-244.02
W4XAA Silent Key

AMSAT News Service Bulletin 244.02
From AMSAT HQ SILVER SPRING, MD.
August 28, 2008
To All RADIO AMATEURS
BID: $ANS-244.02

FOR IMMEDIATE RELEASE: August 25, 2008

Popular Communications Senior Editor Tom Kneitel, W4XAA (ex-K2AES), SK

(Hicksville, NY August 25, 2008) -- Radio monitoring icon Tom Kneitel, W4XAA (ex-K2AES), passed away in Florida on August 22 at age 75. He had been in poor health for the past several years. Tom was Senior Editor and founding Editor of Popular Communications magazine, a CQ publication. The grandson of animation pioneer Max Fleischer and son of animator Seymour Kneitel, "Tommy" preferred the print media, writing for Popular Electronics and Electronics Illustrated in the 1950s and '60s. He started the Popular Electronics registered shortwave monitor program, which issued unofficial "WPE" callsigns to active SWLs.

His association with CQ began when he became the founding editor of S9, a CB magazine started by then-CQ publisher Cowan Publishing, Inc. When S9 ceased publication, Kneitel and current CQ Publisher Dick Ross, K2MGA, launched Popular Communications in 1982. Tommy was Editor of Pop'Comm until 1995, when he gave up day-to-day responsibilities for the magazine and became Senior Editor. He served as an advisor and resource to his successors until recently before his passing. He was also the author of a multitude of books on CB, scanning and other radio-related topics.

"It goes without saying that Pop'Comm wouldn't exist had it not been for the vision and hard work of Tommy Kneitel," says current Popular Communications Editor Edith Lennon, N2ZRW. "In the 13 years he headed this magazine, with great zeal, foresight, and his inimitable humor, he helped shape this hobby of ours and quite possibly an entire industry."

Lennon added, "Personally, I feel very fortunate to have had the opportunity to work with him over the years, to have experienced the pure delight of his story-telling abilities, and to have picked up even just a little bit of his vast wealth of knowledge."

"Tommy was a great friend from the early 1960s on," noted CQ Publisher Dick Ross, K2MGA. "He was also the most creative and inventive person I've ever known."

Tommy is survived by his wife of 54 years, Judy, two sons, five daughters and ten grandchildren. Memorial services will be private.

[ANS thanks Rich Moseson, W2VU, for the above information]

/EX

SB SAT @ AMSAT $ANS-244.03
AO-51 Ops

AMSAT News Service Bulletin 244.03
From AMSAT HQ SILVER SPRING, MD.
Augugst 28, 2008
To All RADIO AMATEURS
BID: $ANS-244.03

AO-51 Continues to wow the satellite community. It is now
being used as a test bed for Earth stations. Since it is being
commanded into S downlinks and L uplinks, it's your
chance to test out the downconverters and upconverters you've been
planning to set up.

"Recently, AO-51 was off the air due to a software glitch. The command
team has succesfully reloaded its operational software and as of 8/30/08
has been back in service.
Gould, WA4SXM for the A0-51 Command team
Kevin, WA6FWF
Drew, KO4MA"

You can check the current mode of AO-51 at
http://www.amsat.org/amsat-new/echo/CTNews.php

If you think a certain mode should be used, contact the command team and
make a suggestion. They are always looking for input as well as
feedback about satellite ops.

[ANS thanks Gould, WA4SXM, for the above information]

/EX

SB SAT @ AMSAT $ANS-244.04
ARISS Status August 28, 2008

AMSAT News Service Bulletin 244.04
From AMSAT HQ SILVER SPRING, MD.
August 28, 2008
To All RADIO AMATEURS
BID: $ANS-244.04

1. Upcoming School Contacts

Schulehaus Feld 1 in Richterswil, Switzerland has been scheduled for an
Amateur Radio on the International Space Station (ARISS) contact on
Saturday, August 30 at 13:53 UTC. Telebridge station VK4KHZ in
Queensland, Australia will assist with the contact. To prepare for the
contact, fifth graders covered the solar system and space in their
studies and composed questions during their English classes. The ARISS
contact will be part of a large public event covering several aspects of
communication. The school will be part of a project involving radio
clubs, the army, the fire brigade, rescue teams and many others.
Reporters from newspapers, television and radio stations will be on site.

Challenger Learning Center of Lucas County in Oregon, Ohio will participate in an Amateur Radio on the International Space Station (ARISS) contact. This activity is planned for Monday, September 1 at 15:22 UTC. The Center is sponsored by the Lucas County Educational Service Center and is one of over 50 Challenger Learning Centers (CLC) across the U.S., U.K., and Canada as a living memorial to the Challenger Crew. It is housed in a small school building that supports the CLC program, 6 Head Start classes, 2 classes from the Oregon City Schools, and a Regional School Improvement Team office. Schools from across northwest Ohio and southeast Michigan participate in onsite missions. The Center reaches over 3,000 students and 100 teachers each year. A science lab onsite also doubles as a distance learning lab. This lab is also used for summer camp programs.

2. Successful ARISS Contact with Los Padres Scouts

Los Padres Council Troop 105 experienced a successful Amateur Radio on the International Space Station (ARISS) contact on Tuesday, August 19. Greg Chamitoff, KD5PKZ, answered one question from each of ten Scouts. Approximately 100 Scouts, family and friends gathered on the University of California, Santa Barbara (UCSB) astronomy observation deck for the event. There was extensive media coverage of this educational activity and streaming video was available. Photos, video, news articles and press releases have been posted to: http://www.n6kth.com/iss.

3. Challenger Learning Center - ARISS Presentation

The Challenger Center Lead Flight Directors Conference will be held in Wellington, Kansas on August 24 - 28. An Amateur Radio on the International Space Station (ARISS) presentation is scheduled to be given during the conference on August 27. It will cover the ARISS program and the school application process.

4. ARISS International Meeting Held

The monthly Amateur Radio on the International Space Station (ARISS) teleconference was held on Tuesday, August 19. Topics of discussion included spaceflight participant Richard Garriott, W5KWQ, and his planned activities while onboard the ISS, Russian plans to fly the ISS Ham backup equipment and SuitSat-2 development progress. Minutes have been posted to the ARISS Web site. See:
http://www.rac.ca/ariss/arisstel2008-08-19.htm

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,

Dee Interdonato, NB2F

159. WSR-248 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-09-05 00:32:28 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002a01c90eee$f3e423f0$dbac6bd0$@net>
Source record: 839
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-248.S1
WSR 248 Part 1 09/04/2008

AMSAT NEWS SERVICE BULLETIN 248.S1 FROM AMSAT HQ
SILVER SPRING, MD, September 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-248.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - OFF
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[08282008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB

Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE

145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-248.S2
WSR 248 Part 2 09/04/2008

AMSAT NEWS SERVICE BULLETIN 248.S2 FROM AMSAT HQ
SILVER SPRING, MD, September 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-248.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Softawre Reload

Current Modes: FM Repeater - OFF
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[08282008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM

145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass 1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-248.S3
WSR 248 Part 3 09/04/2008

AMSAT NEWS SERVICE BULLETIN 248.S3 FROM AMSAT HQ
SILVER SPRING, MD, September 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-248.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-248.S4
WSR 248 Part 4 09/04/2008

AMSAT NEWS SERVICE BULLETIN 248.S4 FROM AMSAT HQ
SILVER SPRING, MD, September 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-248.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
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/EX

SB SAT @ AMSAT W8ISS ANS-248.S5
WSR 248 Part 5 09/04/2008

AMSAT NEWS SERVICE BULLETIN 248.S5 FROM AMSAT HQ
SILVER SPRING, MD, September 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-248.S5

THE FOLLOWING SATELLITES HAVE DE-ORBITED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

160. Yaesu G-5400B Az El Satellite Rotator System for Sale

Newsgroup: rec.radio.amateur.space
Date: 2008-09-06 14:24:29 UTC
From: mbr46208@gmail.com
Message-ID: <03e844c7-b992-4d01-878d-9c9ffb02f3e7@d45g2000hsc.googlegroups.com>
Source record: 840

I have a Yaesu G-5400B Az El Satellite Rotator System for Sale on e-
bay:

Here is the link for details

http://cgi.ebay.com/Yaesu-G-5400B-Elevation-Azimuth-Az-El-Satellite-Rotator_W0QQitemZ30025
6249032QQihZ020QQcategoryZ40059QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

It is e-bay Item Number: 300256249032

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161. ANS-251 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-09-07 01:12:28 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001d01c91086$e1c31390$a5493ab0$@net>
Source record: 841
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-251

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** http://www.amsat.org/amsat-new/symposium/2008/index.php ***
****

In this edition:

* Reminder! Symposium Registration and BoD Ballots
* AO-51 Software Reloaded, Satellite is Operational
* AO-16 Recovered
* PNWVHFS Conference October 3-5
* Satellite Shorts From All Over
* ARISS Status Report for the Week of September 2, 2008

SB SAT @ AMSAT $ANS-251.01
Reminder! Symposium Registration and BoD Ballots

AMSAT News Service Bulletin 251.01
>From AMSAT HQ SILVER SPRING, MD.
September 7, 2008
To All RADIO AMATEURS
BID: $ANS-251.01

Two AMSAT deadlines are approaching quickly!

After Monday, September 8, 2008 the registration fee for the 2008 Space Symposium and Annual Meeting in Atlanta, Georgia increases from $40 to $45. Registration at the door will be $50 over the October 24-26 weekend.

See http://www.amsat.org/amsat-new/symposium/2008/index.php for all of the latest Symposium information and to register!

September 15 is the deadline to return your ballot for the
AMSAT-NA Board of Director's election.

[ANS thanks AMSAT HQ for the above information]

/EX

SB SAT @ AMSAT $ANS-251.02
AO-51 Software Reloaded, Satellite is Operational

AMSAT News Service Bulletin 251.02
>From AMSAT HQ SILVER SPRING, MD.
September 7, 2008
To All RADIO AMATEURS
BID: $ANS-251.02

AO-51 experienced a software crash on August 28 and command stations have been working to reload the spacecraft software. AMSAT-NA VP Operations, Drew KO4MA, provided progress reports during the reloading procedures. On September 2 Drew reported, "AO-51 will be unavailable for a few days beginning Tuesday morning EDT. The command team needs to reload part of the spacecraft operating software."

Gould, WA4SXM reported from the AO-51 Command Station that, "The software crashed during the start procedure of the PL tone task late in the evening of September 3. The command team has reloaded the software and setup the repeater and the BB. Both the AO-51 repeater and the BB are active again as of September 5."

Here is the AO-51 schedule for the remainder of September 2008:

September 8 - September 14

FM Repeater, L/S
Uplink: 1268.700 MHz FM
Downlink: 2401.200 MHz FM

FM Repeater, V/U
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

September 15 - September 21
College Radio Night is September 18!

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

September 22 - September 28

FM Repeater, V/U
Uplink: 145.920 MHz FM

Downlink: 435.300 MHz FM

FM Repeater, L/U
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

September 29 - October 5

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

[ANS thanks the AO-51 Command Team for the above information]

/EX

SB SAT @ AMSAT $ANS-251.03
AO-16 Recovered

AMSAT News Service Bulletin 251.03
>From AMSAT HQ SILVER SPRING, MD.
September 7, 2008
To All RADIO AMATEURS
BID: $ANS-251.03

AMSAT-NA VP Operations, Drew KO4MA reported this week, "It looks like the temperature has come up enough on AO-16 so that the watchdog problem has gone away. On September 1, I turned the satellite on collected some telemetry, and then commanded it into bent pipe mode which is VHF-FM up and DSB-UHF down."

The command team will monitor http://oscar.dcarr.org/ and amsat-bb. If the satellite goes quiet they will endeavor to restart it as soon as possible. Occasional interruptions to gather telemetry are likely.

Just as a reminder, AO-16 now operates as a cross mode, cross band voice repeater, with an uplink on 145.920 FM. The downlink is reduced carrier AM, similar to double sideband, on 437.026. Most stations find receiving the downlink on USB works best.

Work is continuing to predict how long this latest period of operation may last, but initial estimates are around 2-3 months total, symmetric around a period of continuous illumination in October. There may not be another opportunity after this one, as the satellite will generally head towards longer eclipses (and lower temperatures) for several years.

[ANS thanks Drew, KO4MA for the above information]

/EX

SB SAT @ AMSAT $ANS-251.04
PNWVHFS Conference October 3-5

AMSAT News Service Bulletin 251.04
>From AMSAT HQ SILVER SPRING, MD.
September 7, 2008
To All RADIO AMATEURS
BID: $ANS-251.04

You are invited to join Pacific Northwest weak signal VHF, UHF and Microwave operators at the Best Western Lake Front Hotel and Conference Center in Moses Lake, Washington, for the Annual Pacific Northwest VHF Conference October 3-5, 2008. Membership in PNWVHFS is not required for conference attendance.

This year will feature a great line up of speakers and programs including our keynote speaker Joe Taylor, K1JT, Nobel Laureate and "father" of WSJT, Software for VHF Meteor-Scatter Communication.

The list of presentations includes:
+ Lyle Johnson, KK7P, co-founder Tucson Amateur Packet Radio, Dayton Hamvention Technical Excellence Award winner 1984, currently employed by Elecraft and consulting in the broadcast and space industries, and HPSDR project.
+ Sean Kutzko, KX9X, ARRL Contest Branch Manager
+ Eric Schwarz, WA6HHQ, Elecraft

All of the conference information is available on-line at:
http://www.pnwvhfs.org/administration/conference.htm

[ANS thanks the PNWVHFS for the above information]

/EX

SB SAT @ AMSAT $ANS-251.05
Satellite Shorts From All Over

AMSAT News Service Bulletin 251.05
>From AMSAT HQ SILVER SPRING, MD.
September 7, 2008
To All RADIO AMATEURS
BID: $ANS-251.05

+ Mak SV1BSX reported this week that Joe, K3SZH and Fabio PY4AJ have set a confirmed distance record of 7438 km via AO-7. See:
http://sv1bsx.50webs.com/oscardx/ao7-dx.html for more info.

+ For stations in Europe watch for Juan Antonio, EA4CYQ operating portable via AO-51 and AO-27 from western Spain (IM76qm).

+ Drew, KO4MA is collecting data on successful AO-40 portable-type stations. He would like hear what worked and what didn't work for a portable-throw-it-in-a-suitcase type setup. He is also interested in hearing description of your CC&R evading driveway or backyard setups, for either U/S or L/S. If you have any photos and/or

descriptions of your setup, please forward them to Drew at
ko4ma@amsat.org, or point him to a link if you have them on the web.

+ AMSAT Area Coordinator, Ken Owen, N6KTH reports that video of a
successful ARISS contact is available on-line at:
http://nasa.id.ucsb.edu/ (This was recorded by the University of
California Santa Barbara) - and -
http://sbarc.camstreams.com/ (This was recorded by WB9KMO and is
playing constantly on a continuous loop.)
Check http://www.n6kth.com for all of the links of media coverage.

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-251.06
ARISS Status Report for the Week of September 2, 2008

AMSAT News Service Bulletin 251.06
>From AMSAT HQ SILVER SPRING, MD.
September 7, 2008
To All RADIO AMATEURS
BID: $ANS-251.06

1. Upcoming School Contact

An ARISS contact has been scheduled with Prairielands Council, Boy
Scouts of America at Chanute Air Force Base in Rantoul, IL on Satur-
day, September 13 at 15:54 UTC. The contact will be facilitated by
telebridge station WH6PN in Hawaii. During the event, Scouts will
earn the Space Exploration Merit Badge, which includes the Mars
Mission Design and the Moon Base Model construction. NASA DLN will
assist with teaching these two topics. Scouts will design and launch
water rockets and explore robotic technology. Segway of Chicago will
assist in Robotics education. Participants will also complete many
of the Radio Merit Badge requirements. The local rocket club will
provide rocket launches throughout the event, two during the outdoor
viewing of the movie "October Sky." The event will conclude with a
hot air balloon launch. Boy Scouts (ages 11-17), Cub Scouts (ages 6-10),

and adult volunteers have been invited to the event. The Space Jam-
boree has attracted the attention of regional media outlets. Four
television stations, radio stations, and local newspapers are planning
features on the Space Jamboree.

2. Swiss Contact Successful

On Saturday, August 30, youth attending Schulehaus Feld 1 in
Richterswil,
Switzerland participated in a successful ARISS contact via telebridge
station VK4KHZ in Australia. To prepare for the event, children
produced
drawings, plays, research papers and multimedia products which were dis-

played the day of the contact. More than 500 students, parents, teachers

and visitors gathered in the sports hall to watch as 21 students posed questions to Greg Chamitoff, KD5PKZ, aboard the ISS. Additionally, an audio link was set up outside the sports hall for other visitors to listen
in. Two television stations (SF DRS Aktuell Schweizer Fernsehen, Regional
Fernsehen Tele Zï¿½rich), one radio station (Radio Zï¿½richsee) and three
newspapers (Zï¿½richsee Zeitung, Neue Zï¿½rcher Zeitung NZZ, Tages-Anzeiger)
covered the event. The audio was fed into the EchoLink AMSAT server, which
received 12 connections, and also into Internet Radio Linking Project (IRLP) Reflector 9010.

3. ARISS Presentation Given at CLC Conference

The Challenger Learning Center (CLC) Lead Flight Directors Conference was
held in Wellington, Kansas on August 24 - 28. An ARISS presentation was given during the conference on August 27, covering the ARISS program and

the school application process.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

162. Radio Meteor Obs. Bull. August 2008 Perseids

Newsgroup: rec.radio.amateur.space
Date: 2008-09-07 18:22:21 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <a168c4d5a919mpd768samj2udnem2fne2b@4ax.com>
Source record: 842
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 181 of August 2008 (79 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0808.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

163. видео Бритни и Кевина.

Newsgroup: rec.radio.amateur.space
Date: 2008-09-09 17:16:05 UTC
From: tamarmadgecay@gmail.com
Message-ID: <ae13004e-040b-49d9-9bb9-8cf976381268@p25g2000hsf.googlegroups.com>
Source record: 843
Cross-posted to: rec.radio.amateur.space,rec.radio.shortwave,rec.roller-coaster,rec.running,rec.scouting.issues

Смотри, как она сосет член, она лучшая! http://ragdai.info/golaya-pravda.htm
Это видео супер!

164. WSR-255 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-09-14 16:31:38 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000801c91687$53f9b6c0$fbed2440$@net>
Source record: 844
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-255.S1
WSR 255 Part 1 09/11/2008

AMSAT NEWS SERVICE BULLETIN 255.S1 FROM AMSAT HQ
SILVER SPRING, MD, September 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-255.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V/u
L/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09112008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB

Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-255.S2
WSR 255 Part 2 09/11/2008

AMSAT NEWS SERVICE BULLETIN 255.S2 FROM AMSAT HQ
SILVER SPRING, MD, September 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-255.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Softawre Reload

Current Modes: FM Repeater - V/u
L/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09112008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-255.S3
WSR 255 Part 3 09/11/2008

AMSAT NEWS SERVICE BULLETIN 255.S3 FROM AMSAT HQ
SILVER SPRING, MD, September 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-255.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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/EX

SB SAT @ AMSAT W8ISS ANS-255.S4
WSR 255 Part 4 09/11/2008

AMSAT NEWS SERVICE BULLETIN 255.S4 FROM AMSAT HQ
SILVER SPRING, MD, September 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-255.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
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/EX

SB SAT @ AMSAT W8ISS ANS-255.S5
WSR 255 Part 5 09/11/2008

AMSAT NEWS SERVICE BULLETIN 255.S5 FROM AMSAT HQ
SILVER SPRING, MD, September 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-255.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

165. ANS-258 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-09-14 22:00:42 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001901c916b5$46499990$d2dcccb0$@net>
Source record: 845
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-258

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Board of Directors to Conduct Presidential Search
* Worldwide Amateur Radio Effort Saves COMPASS Cubesat
* College Satellite Nite - 18 September 2008
* AO-51 Schedule - September 2008
* ARISS Status - 18 August 2008

SB SAT @ AMSAT $ANS-258.01
AMSAT Board of Directors to Conduct Presidential Search

AMSAT News Service Bulletin 258.01
From AMSAT HQ SILVER SPRING, MD.
September 14, 2008
To All RADIO AMATEURS
BID: $ANS-258.01

AMSAT President Rick Hambly, W2GPS notified the AMSAT Board of Directors on Thursday, September 11 that he is not a candidate for President of AMSAT for the upcoming year. "After careful consideration, I
have
decided that I am not able to continue as AMSAT President beyond the next
Board

meeting and so I will not offer my name for consideration, and if nominated
by
others I will not accept the nomination for
President. While I will be focusing
most of my efforts on business activities, I will do my best to make the transition seamless", stated Rick in an e-mail to the current members of the
AMSAT Board of Directors. Rick has served as President of AMSAT since October
2004.

The current Board of Directors election concludes on Monday, September 15, when results of the balloting will be announced. Members of the new Board will then begin a formal search process to recruit and select a new President. This process is expected to take several weeks with the goal of having a new President identified prior to the AMSAT Board of Directors meeting on October 23, prior to the AMSAT Symposium in Atlanta. The search process starts immediately with an invitation to current AMSAT members (including BOD members, Senior Advisors, Officers, and the AMSAT general membership) to suggest current AMSAT members that they would recommend for consideration. Recommendations are requested by 1900 EDT Tuesday evening, September 16 to the AMSAT Corporate Secretary (Barry Baines, WD4ASW; e-mail: wd4asw@amsat.org). Names that are submitted will be initially reviewed
by
the
BOD and those candidates that the Board would like to follow up with will be
contacted concerning the interview/selection process.

Rick Hambly, W2GPS will continue to fulfill his duties as President until the Board meeting in October. His current term on the Board of Directors expires in September 2009.

[ANS thanks the AMSAT-NA Board of Directors for the above information]

/EX

SB SAT @ AMSAT $ANS-258.02
Worldwide Amateur Radio Effort Saves COMPASS Cubesat

AMSAT News Service Bulletin 258.02
From AMSAT HQ SILVER SPRING, MD.
September 14, 2008
To All RADIO AMATEURS
BID: $ANS-258.02

Mike, DK3WN said this week that a worldwide amateur radio effort saved the COMPASS cubesat. Mike reports receiving reports of good COMPASS beacons from Japan. The COMPASS cubesat has not reset over several eclipse periods and remains operational.

The problem that depleted the batteries aboard COMPASS had its heater remain on constantly. Amateur radio stations around the world successfully transmitted the command to turn off the heater and allowed the batteries to recover.

After the heater was turned off Mike wrote, "The only thing we can do is WAIT. Wait for longer sun periods and voltages over 3.47 Volts. That's the standard threshold value in emergency mode to switch into powersafe mode. Only in this mode we can change the threshold values. As of September 8, COMPASS was back in its powersafe mode of operation.

As of September 10 COMPASS was back in NORMAL mode. Mike had gained control of the satellite and could successfully command the satellite.

Mike summarized, "Thanks to all - this is truly a worldwide ham radio effort - thanks so much for your help. Also, PLEASE do NOT send any commands to COMPASS until further notice. If you send any commands you overwrite the current settings and COMPASS may fall back into emergency mode. We almost lost a cubesat, but we've definitely gained some new friends. Thank you all for your efforts!"

Meanwhile please listen to the beacon and keep your fingers crossed that COMPASS will remain in its normal mode.

[ANS thanks Mike, DK3WN, for the above information]

/EX

SB SAT @ AMSAT $ANS-258.03
College Satellite Nite - 18 September 2008

AMSAT News Service Bulletin 258.03
From AMSAT HQ SILVER SPRING, MD.
September 14, 2008
To All RADIO AMATEURS
BID: $ANS-258.03

A college Satellite night will be held Thursday, September 18, 2008 (local
time). This event is a great opportunity for hams that are satellite active
to interact with college students and elmer a new generation! Do you know a
college student who would find amateur satellites interesting and intellectually challenging? Have them as a guest at your station and introduce them to amateur radio in a way they will never forget.

Look for college stations and students on all the birds that evening and please give them preference for operation. With the new school year just starting, new student guests and thus potential young hams will be present
in college shacks around the country. They look forward to meeting you through the exciting venue of Orbiting Satellites carrying Amateur

Radio!

73, Hope to see you on the birds!
Dr. Jay Garlitz, AA4FL

[ANS thanks Jay, AA4FL, for the above information]

/EX

SB SAT @ AMSAT $ANS-258.04
AO-51 Schedule - September 2008

AMSAT News Service Bulletin 258.04
From AMSAT HQ SILVER SPRING, MD.
September 14, 2008
To All RADIO AMATEURS
BID: $ANS-258.04

September 8 - September 14

FM Repeater, L/S
Uplink: 1268.700 MHz FM
Downlink: 2401.200 MHz FM

FM Repeater, V/U
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

September 15 - September 21
College Radio Night is September 18!

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

September 22 - September 24

FM Repeater, V/U
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM

FM Repeater, L/U
Uplink: 1268.700 Mhz USB
Downlink: 435.150 Mhz FM

September 25 - September 28

FM Repeater, V/U
Uplink: 145.920 Mhz FM
Downlink: 435.300 Mhz FM

FM Repeater, L/U
Uplink: 1268.700 Mhz FM
Downlink: 435.150 Mhz FM

September 29 - October 5

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

9k6 BBS and Telemetry
Uplink: 1268.700 MHz FM
Downlink: 435.150 MHz FM

[ANS thanks Drew, KO4MA, for the above information]

/EX

SB SAT @ AMSAT $ANS-258.05
ARISS Status - 8 September 2008

AMSAT News Service Bulletin 258.05
From AMSAT HQ SILVER SPRING, MD.
September 14, 2008
To All RADIO AMATEURS
BID: $ANS-258.05

1. Successful Contact with Challenger Learning Center

On Monday, September 1, ten students visiting the Challenger Learning Center
of
Lucas County in Oregon, Ohio participated in an Amateur Radio on the
International Space Station (ARISS) contact. The
students posed ten questions to
Greg Chamitoff, KD5PKZ, in front of an audience of 80. News 24 TV was present
and interviewed the students. The audio was fed into the EchoLink AMSAT server
and IRLP (Internet Radio Linking Project) Reflector 9010.

2. NZZ Article on Swiss Contact

On Saturday, August 30, students attending Schulehaus Feld 1 in Richterswil,
Switzerland participated in a successful Amateur Radio on the International
Space Station (ARISS) contact. Neue Zï¿½rcher Zeitung NZZ posted an article
(in
German) on the contact. See:
http://www.nzz.ch/nachrichten/zuerich/telefonkonferenz_mit_der_raumstation_iss_1
.820665.html

3. ARISS Presentations Posted

On Thursday, August 28, an Amateur Radio on the International Space Station
(ARISS) member gave a talk to Rockwell Collins
Amateur Radio Club in Richardson,
Texas. His talk covered Radio Amateur Satellite Corporation (AMSAT) satellites
and ARISS projects. The presentation has been posted to the AMSAT Web site.
See:
http://www.amsat.org/amsat/ariss/Presentations/AMSAT%20for%20RCARC.ppt

The ARISS presentation given at the Challenger
Learning Center (CLC) Lead Flight
Directors Conference on August 27 has also been posted. See:
http://www.amsat.org/amsat/ariss/Presentations/Challenger%20National%20Convention%202008.ppt

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

166. Ham Radio License Exam Preparation Software

Newsgroup: rec.radio.amateur.space
Date: 2008-09-15 04:39:02 UTC
From: Webmaster <webmaster@oaklanesoftware.com>
Message-ID: <vFlzk.8846$PK.3357@newsfe04.iad>
Source record: 846
Cross-posted to:
rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.amateur.spacerec.radio.scanner,rec.radio.amateur.swap

Test Preparation Software

Pass your US FCC ham radio license test with ease. Our test preparation software
serves as a training aid to help amateurs and prospective amateurs pass the VEC's
administered test. When you can consistently pass the test given by our test preparation
software, you will almost certainly pass an actual test.

Our ham radio license test preparation software uses the latest officially released VEC's approved question pools. The program breaks the test into different sub-element. Integrated into the software are illustrations and Part 97 rules pertaining to the current question. The program tracks the progress of the tests taken. Once you have mastered each sub-element you are ready for the official test.

Visit our web site at http://www.hamradiolicense.net for more information

167. WSR-262 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-09-19 16:27:30 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000401c91a74$8ff338e0$afd9aaa0$@net>
Source record: 847
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-262.S1
WSR 262 Part 1 09/18/2008

AMSAT NEWS SERVICE BULLETIN 262.S1 FROM AMSAT HQ
SILVER SPRING, MD, September 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-262.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V/u
L/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09112008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB

Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: Operational

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[12132007]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-262.S2
WSR 262 Part 2 09/18/2008

AMSAT NEWS SERVICE BULLETIN 262.S2 FROM AMSAT HQ
SILVER SPRING, MD, September 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-262.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Softawre Reload

Current Modes: FM Repeater - V/u
L/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09112008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-262.S3
WSR 262 Part 3 09/18/2008

AMSAT NEWS SERVICE BULLETIN 262.S3 FROM AMSAT HQ
SILVER SPRING, MD, September 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-262.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW
[11152007]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-262.S4
WSR 2625 Part 4 09/18/2008

AMSAT NEWS SERVICE BULLETIN 262.S4 FROM AMSAT HQ
SILVER SPRING, MD, September 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-262.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-262.S5
WSR 262 Part 5 09/18/2008

AMSAT NEWS SERVICE BULLETIN 262.S5 FROM AMSAT HQ
SILVER SPRING, MD, September 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-262.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

168. boobs webcams

Newsgroup: rec.radio.amateur.space
Date: 2008-09-23 13:42:22 UTC
From: tamarmadgecay@gmail.com
Message-ID: <2433ed5b-2b0e-4d8e-9109-7ea66a08296c@y38g2000hsy.googlegroups.com>
Source record: 848
Cross-posted to: rec.radio.amateur.space,rec.radio.shortwave,rec.roller-coaster,rec.running,rec.scouting.issues

asian women webcams - adult cam - xxx webcams - sluts webcams - latina women webcams - fucking hardcore webcams - sluts webcams http://ragdai.info/bdsm-cam-broadcasting.htm

169. Re: boobs webcams

Newsgroup: rec.radio.amateur.space
Date: 2008-09-23 15:28:56 UTC
From: steelforce <steelforce@aol.com>
Message-ID: <0c939fc0-9980-4756-a9ed-d2a30b9179a6@k37g2000hsf.googlegroups.com>
Source record: 849
Cross-posted to: rec.radio.amateur.space,rec.radio.shortwave,rec.roller-coaster,rec.running,rec.scouting.issues

On Sep 23, 9:42 am, tamarmadge...@gmail.com wrote:
> asian women webcams - adult cam - xxx webcams - sluts webcams - latina
> women webcams - fucking hardcore webcams - sluts webcamshttp://ragdai.info/bdsm-cam-broadcasting.htm

damn! no coaster webcams?

170. Filthy Pink Sneakers. By Marina Cooper

Newsgroup: rec.radio.amateur.space
Date: 2008-09-24 17:23:28 UTC
From: bluebonysh@gmail.com
Message-ID: <c0b96a63-47e7-4472-ac9f-76749eb0c05a@m3g2000hsc.googlegroups.com>
Source record: 850
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

SEXY story. The cute doorman gives me an enigmatic look when I say I'm
here to see you. I am not sure if maybe he thinks I am your daughter.
You are not quite old enough for that, I am not quite young enough -
but we are pretty close. Am I wrong for thinking that's hot?
Definitely. I think... http://ragdai.info/sex-story.html

171. ANS-265 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-09-24 18:43:53 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01c91e75$72c8f7f0$585ae7d0$@net>
Source record: 651
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-265

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
**** Please see the AMSAT-NA Website for INFO ****
****

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* South African SumbandilaSat Launch Likely By Year-End 2008
* Richard Garriott W5KWQ ISS Operations Will Include SSTV
* Increased Solar Illumination Allows AO-16 Operations to Continue
* Flight 4 of Falcon 1
* Welcome Aboard AMSAT-Indonesia
* ARISS Status - 21 August 2008

SB SAT @ AMSAT $ANS-265.01
South African SumbandilaSat Launch Likely By Year-End 2008

AMSAT News Service Bulletin 265.01
From AMSAT HQ SILVER SPRING, MD.
September 21, 2008
To All RADIO AMATEURS
BID: $ANS-265.01

South African SumbandilaSat Launch Likely By Year-End 2008

ITAR-TASS published a news item stating that the first South African satellite Sumbandila "is likely to be launched into orbit along with a Russian spacecraft Meteor-M at the end of 2008, said the head of the Federal Space Agency (Roskosmos), Anatoly Perminov.

"We are currently working toward adapting this cluster of satellite launch with the spacecraft Meteor-M, which will be launched this year." Perminov added that "in the near future to meet with experts from South

Africa, perhaps even with the head of the South African Space Agency, to discuss the matter." According to Roscosmos, the South African side is ready to launch its first spacecraft to the new Russian launch vehicle Soyuz-2 ".

ITAR-TASS said that in return for launch services Russia will have the opportunity to place on the territory of South Africa a tracking station to receive f telemetry from upper stages of launch vehicles.

[Editor Note:] AMSAT South Africa has designed and built a control system to facilitate the following operations:

+ V/U voice transponder with an uplink in the 2 meter band and a downlink in the 70cm band.
+ A parrot repeater (voice digipeater)
+ A voice beacon

[ANS thanks ITAR-TASS for the above information]

/EX

SB SAT @ AMSAT $ANS-265.02
Richard Garriott W5KWQ ISS Operations Will Include SSTV

AMSAT News Service Bulletin 265.02
From AMSAT HQ SILVER SPRING, MD.
September 21, 2008
To All RADIO AMATEURS
BID: $ANS-265.02

Richard Garriott W5KWQ ISS Operations Will Include SSTV

September 18, 2008
Silver Spring, Maryland

Richard Garriott, W5KWQ, to communicate with Students and Ham Radio Operators World-wide through the Amateur Radio Station on-board the International Space Station (ISS)

Through multiple agreements with NASA, the Russian Space Agency, RSC Energia, Space Adventures Ltd, and ARISS (Amateur Radio on the International Space Station), Richard Garriott will fly to ISS and will communicate with students, ham radio operators, friends, and family world-wide using the ARISS amateur radio station on-board the ISS.

Richard Garriott, with the amateur radio callsign, W5KWQ is the sixth private citizen to be flown by the Russian space agency to the ISS. A legendary video game programmer and designer, Garriott will be traveling to orbit this October and will speak with hundreds of students while thousands more listen in during a series of ten-minute ham radio contacts. His on-orbit stay on Soyuz and ISS is planned for October 12 through 22, 2008.

The locales for the worldwide student contacts include eight Challenger Learning Centers in the U.S., the Austin Liberal Arts and Sciences Academy in Austin, Texas, the Pinehurst School in Ashland, Oregon, the Budbrooke School in the U.K., and the National Space Challenge in Kuala Lumpur, Malaysia. Garriott also plans to have random chats with scouts world-wide as part of the amateur radio "Jamboree on the Air" which is planned for October 18 and 19.

"An important aspect of Richard Garriott's mission is to encourage students' interest in science and technology through the amateur radio contacts," said Rosalie White, ARISS International Secretary-Treasurer and ARISS Program Manager for ARRL (American Radio Relay League). "ARISS team members from all over the world volunteer their time every day so that students receive opportunities that we hope will cause them to study harder and learn more about any educational subject."

The connection from the ISS to individual student locations will be established through an amateur radio station set up directly at the school or through the ARISS network of worldwide amateur radio ground stations utilized to link Garriott directly with students. The amateur radio system works similar to the way mission control centers in the United States and Russia talk to their space explorers.

To date, the ARISS international working group volunteer team has conducted over 360 school contacts with crew members using ham radio on the ISS. The team has also set up radio contacts for family members of space explorers via ham radio. And have enabled countless contacts between the ISS crew members and hams on the ground. All previous Space Adventures private citizens who have flown to ISS have used the ARISS equipment to talk to school students, ham radio operators and friends and family.

As part of Richard Garriott's science investigations, he will be taking highdefinition photographs of many parts of the Earth and comparing them to photos taken on previous space missions. In con-junction with his Earth science investigation, Mr. Garriott is flying special amateur radio electronics that will enable him to send and receive low resolution images from space, comparable to cell phone images. Through this ham radio system, called Slow-Scan Television (SSTV), Garriott will beam down images of the Earth to schools and ham radio operators on the ground so that they can actively participate in his mission.

Frank Bauer, KA3HDO, ARISS International Chairman and AMSAT Vice President for Human Spaceflight Programs, states: "The ARISS team is quite excited about Richard's flight. He is very interested in bringing the wonders of space to those of us on Earth and he sees amateur radio as a great mechanism to make that happen. Through his school and scout voice contacts, his SSTV image downlinks and his communications with the world-wide amateur radio community, we see his mission as being "action packed" from an amateur radio perspective."

Bauer continues, "What is extra special is that Richard Garriott's flight coincides almost 25 years from when his father, Owen Garriott, made history as the first ham radio operator to communicate with radio amateurs from space on the STS-9 Space Shuttle mission." Owen Garriott's call sign is W5LFL. Richard also hopes to link up with his father via amateur radio during his flight.

Currently, Mr. Garriott is finishing his final spaceflight preparations at the Gagarin Cosmonaut Training Centre (GCTC) located in Star City, Russia. His launch date is scheduled for October 12, 2008, with ISS docking planned for October 14 and undocking planned for October 22. Mr. Garriott was trained thoroughly to be a member of the Soyuz TMA-13/ 17S crew.

Since its first flight with Owen Garriott, in November 1983, Ham Radio has flown on more than two-dozen space shuttle missions, on the Mir Space Station and on the ISS. ARISS is the first and longest continuous operating educational outreach program to fly on the ISS. ARISS is an internationally-based working group, sponsored by the national amateur radio organizations and the international AMSAT (Radio Amateur Satellite Corporation) organizations from each country as well as the ISS space agency partners. In the United States, ARISS is sponsored by the American Radio Relay League (ARRL), the Radio Amateur Satellite Corporation-North America (AMSAT-NA) and the National Aeronautics and Space Administration (NASA). NASA's education office provides support to ARISS and guidance in the development of ARISS educational objectives.

The primary purpose of ARISS is to allow students engaged in a science and technology curriculum to speak with an astronaut orbiting the Earth on the International Space Station. Using amateur radio, students ask questions about life in space or other space-related topics. Students fully participate in the ARISS contact by helping set up an amateur radio ground station at the school and then using that station to talk directly with the on-board crew member. Preparation for the experience motivates the children to learn about radio waves, space technology, science, geography and the space environment. In many cases, the students help write press releases and give presentations on the contact to their fellow students and to the local community. Through this hands-on experience, students are engaged and educated in the Science, Technology, Engineering and Mathematics (STEM) fields, and are inspired to pursue STEM-related careers.

For more information about amateur radio on the ISS and Richard Garriott's flight, go to:

http://www.ariss.org
http://richardinspace.com
http://spaceadventures.com
http://www.arrl.org
http://www.amsat.org
http://www.spaceflight.nasa.gov/station/reference/radio/index.html
http://dln.nasa.gov/dln/content/catalog/details/?cid=634

http://www.nasa.gov/mission_pages/station/science/experiments/ARISS.html

Scout Jamboree on the Air:
http://www.scout.org/jota

Frank H. Bauer, KA3HDO
AMSAT-NA V.P. for Human Spaceflight Programs
ARISS International Chairman

[ANS thanks ARISS for the above information]

/EX

SB SAT @ AMSAT $ANS-265.03
Increased Solar Illumination Allows AO-16 Operations to Continue

AMSAT News Service Bulletin 265.03
From AMSAT HQ SILVER SPRING, MD.
September 21, 2008
To All RADIO AMATEURS
BID: $ANS-258.03

Increased Solar Illumination Allows AO-16 Operations to Continue

AO-16 Command Station, Mark N8MH commanded AO-16 ON and restored it to voice mode on September 15. Mark commented, "At the time of my message we are up to 30 hours of continuous uptime, which is a 'good thing.' Our predictions regarding sustained activities seem to be right on the mark. Recording your observations about AO-16 at http://oscar.dcarr.org/ has been, and will continue to be, very helpful to us."

It is possible that the transmitter will turn OFF; this requires some commanding to get it running again, which means a pass over the Eastern US coast is required for a change in status. The command team is hoping that the bird will remain ON more often than OFF for the next several weeks.

Illumination projects (and subsequent temperature predictions) suggest that AO-16 might be able to sustain operations until early November. So, if you want some AO-16 contacts, you had better get them before then. After November 2008, it may be a long, long, time before the orbit provides favorable temperatures for the bird to remain operational for more than a few seconds or minutes at a time.

Current operational mode for AO-16

Mode FM Voice Repeater (Downlink is DSB)
Uplink : 145.9200 MHz FM
Downlink 437.0260 MHz SSB

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-265.04
Flight 4 of Falcon 1

AMSAT News Service Bulletin 265.04
From AMSAT HQ SILVER SPRING, MD.
September 21, 2008
To All RADIO AMATEURS
BID: $ANS-265.04

Flight 4 of Falcon 1

As mentioned in my update last month, we do expect to conduct a launch countdown in late September - as scheduled.

Having said that, it is still possible that we encounter an issue that needs to be investigated, which would delay launch until the next available window in late October. If preparations go smoothly, we will conduct a static fire on Saturday and launch sometime between Tuesday and Thursday (California time).

The SpaceX team worked hard to make this launch window, but we also took the time to review data from Flight 3 in detail. In addition to us reviewing the data, we had several outside experts check the data and conclusions. No flight critical problems were found apart from the thrust transient issue.

Flight 5 production is well underway with an expected January completion date, Flight 6 parts are on order and Flight 7 production will begin early next year. We are now in steady state production of Falcon 1 at a rate of one vehicle every four months, which we will probably step up to one vehicle every two to three months in 2010.

--Elon--

[ANS thanks Lee, KU4OS for the above information]

EX/

SB SAT @ AMSAT $ANS-265.05
Welcome Aboard AMSAT-Indonesia

AMSAT News Service Bulletin 265.05
From AMSAT HQ SILVER SPRING, MD.
September 21, 2008
To All RADIO AMATEURS
BID: $ANS-265.05

Welcome Aboard AMSAT-Indonesia

Hakim Satar YB0AN, contacted AMSAT-NA President Rick Hambly W2GPS this week with the announcement that AMSAT-Indonesia has formed. Rick replied, "Congratulations on the new AMSAT. I have added you to the AMSAT Web site and included various AMSAT-NA mail groups on this reply so everyone will receive the good news."

Two web links are available:
http://www.amsat-id.net
http://www.amsat.org/amsat-new/links/Asia.php

[ANS thanks Hakim Satar YB0AN, President AMSAT-Indonesia for
the above information]

/EX

SB SAT @ AMSAT $ANS-265.06
ARISS Status - 21 September 2008

AMSAT News Service Bulletin 265.06
From AMSAT HQ SILVER SPRING, MD.
September 21, 2008
To All RADIO AMATEURS
BID: $ANS-265.06

ARISS Status Report for the Week of September 15, 2008

1. Upcoming School Contact - Status

The ARISS team continues working to schedule the next contact. Contact approvals for the week have been delayed due to the closure of Johnson Space Center, which was closed for Hurricane Ike.

2. Boy Scouts Contact Successful

On Saturday, September 13, Prairielands Council Scouts attending the Space Jamboree at Chanute Air Force Base in Rantoul, Illinois partici-pated in an ARISS contact with Greg Chamitoff, KD5PKZ. Telebridge station WH6PN in Hawaii assisted with the contact. Thirteen Scouts were able to ask 17 questions of the astronaut during the pass. Scout leaders replayed the question and answer session later in the day for all 3,000 Scouts attending the Jamboree. The audio was fed into the EchoLink AMSAT server and Internet Radio Linking Project (IRLP) Reflector 9010.
The News-Gazette printed a press release for the event:
http://www.news-gazette.com/news/local/2008/09/12/scouts_at_jamboree_set_to_
talk_with_space_station_astronauts

3. ARISS at Launchfest

On Saturday, September 13, the public was invited to Goddard Space Flight Center in Greenbelt, Maryland to attend Launchfest. There were plenty of exhibits and demonstrations of space related activities including model rocket launches and space robots. The event also celebrated NASA's 50th anniversary. ARISS members supported Launchfest and distributed ARISS lithographs.

4. Garriott Prepares for Ham Radio Activities

Spaceflight participant Richard Garriott, W5KWQ, is scheduled to launch on October 12 with the Expedition 18 crew. He plans to take part in several ARISS activities while onboard the ISS. His activities include speaking with children at Challenger Learning Centers throughout the

U.S. He mentioned his radio training in his recent blog. See:
http://www.richardinspace.com/index.cfm?fuseaction=blog.welcome&theyear=&the
month=&view=77#77

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining donors
to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

172. WSR-269 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-09-26 12:43:09 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c91fd5$60820a80$21861f80$@net>
Source record: 652
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-269.S1
WSR 269 Part 1 09/25/2008

AMSAT NEWS SERVICE BULLETIN 269.S1 FROM AMSAT HQ
SILVER SPRING, MD, September 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-269.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
* Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
* Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
* Linear transponder passband downlink: 145.880 - 145.920 MHz
(inverting)
400mW PEP
* Linear transponder passband uplink: 435.570 - 435.530 MHz
* Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

For the latest project status update please visit the Delfi-C3 web page:
http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V/u
L/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09252008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB

Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Recovery Efforts

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[09252008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-269.S2
WSR 269 Part 2 09/25/2008

AMSAT NEWS SERVICE BULLETIN 269.S2 FROM AMSAT HQ
SILVER SPRING, MD, September 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-269.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Softawre Reload

Current Modes: FM Repeater - V/u
L/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09112008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems

Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-269.S2
WSR 269 Part 2 09/25/2008

AMSAT NEWS SERVICE BULLETIN 269.S2 FROM AMSAT HQ
SILVER SPRING, MD, September 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-269.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895

Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Softawre Reload

Current Modes: FM Repeater - V/u
L/s
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/
[09112008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS

Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-269.S4
WSR 269 Part 4 09/25/2008

AMSAT NEWS SERVICE BULLETIN 269.S4 FROM AMSAT HQ
SILVER SPRING, MD, September 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-269.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
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SB SAT @ AMSAT W8ISS ANS-269.S5
WSR 269 Part 5 09/25/2008

AMSAT NEWS SERVICE BULLETIN 269.S5 FROM AMSAT HQ
SILVER SPRING, MD, September 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-269.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1

Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
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/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
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/EX

173. I AM DOMME HEAR ME ROAR.25 year old Woman BellaPura

Newsgroup: rec.radio.amateur.space
Date: 2008-09-26 13:17:25 UTC
From: bluebonysh@gmail.com
Message-ID: <756b0c10-c2e6-4aa4-9b1a-a55f5613934b@y38g2000hsy.googlegroups.com>
Source record: 653
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

25 year old Woman BellaPura in Saint Louis, Looking For: Men, Women,
Couples for erotic email exchange, phone fantasies, performing only,
watching only or active participation http://ragdai.info/BellaPura.htm

174. ANS-272 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-09-28 01:19:58 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000e01c92108$4d290a40$e77b1ec0$@net>
Source record: 654
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-272

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** http://www.amsat.org/amsat-new/symposium/2008/index.php ***
****

In this edition:

* AMSAT Symposium Presentations Posted
* ARISS Confirms Amateur Radio Hardware Deliveries
* Richard Garriott Operations Call for Support
* Call For AMSAT Journal Articles
* AMSAT-Italy Announces Joint VERTA-1 Satellite Project With AMSAT-UK
* Satellite Shorts From All Over
* ARISS Status Report for the Week of September 22, 2008

SB SAT @ AMSAT $ANS-272.01
AMSAT Symposium Presentations Posted

AMSAT News Service Bulletin 272.01
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008
To All RADIO AMATEURS
BID: $ANS-272.01

The list of presentations for the 2008 AMSAT Symposium Oct 24-26 is now posted on the AMSAT web site. There is a link on the front page and also on the Symposium information page. We have a great line up of speakers, so make your plans to attend the Symposium in Atlanta. The AMSAT board meeting Oct 23-24 preceeds the Symposium at the same hotel. Please make your reservations soon and join us to get the latest news and information about the organization, plans for future satellites and technical information.

Follow this link for the latest Symposium information:
http://www.amsat.org/amsat-new/symposium/2008/index.php

We are about to lose our room block at the Buckhead Doubletree in Atlanta. If you are planning to attend the 2008 AMSAT Symposium, you need to make your room reservations ASAP. Their direct phone number is 404-231-1234. The room rate is $125 per night and the Group Code is ASG.

[ANS thanks the 2008 Symposium Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-272.02
ARISS Confirms Amateur Radio Hardware Deliveries

AMSAT News Service Bulletin 272.02
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008
To All RADIO AMATEURS
BID: $ANS-272.02

The ARISS team received confirmation from Sergey, RV3DR, that the recent Progress flight delivered the flight backup D-700, a David Clark Headset for the Ericsson system, and an additional VOX box and cables to support the computer-operated SSTV system. The D700 may be installed as early as late this week, depending on crew availability. The flight backup will not provide a significant change in ARISS operations, making it easier for the crew to change program modes.

Richard Garriott plans to take a Kenwood VC-H1 SSTV communicator with him on-board the Soyuz for his flight and leave it aboard the ISS for future ARISS use. The VC-H1 has completed all hardware certification on the US and Russian sides. The final test, an EMI radiated emissions test, was performed last week and the test data was delivered to Sergey Samburov, RV3DR in Russia this week. The VC-H1 provides a very simple interface for ISS crew members and does not require the use of a computer. Computer usage has been a real challenge for ARISS, so the VC-H1 represents a lesson learned to improve ARISS operations.

[ANS thanks ARISS International Chairman Frank Bauer, KA3HDO for the above information]

/EX

SB SAT @ AMSAT $ANS-272.03
Richard Garriott Operations Call for Support

AMSAT News Service Bulletin 272.03
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008
To All RADIO AMATEURS
BID: $ANS-272.03

Early during Richard Garriott's flight, he expects to setup the VC-H1 SSTV system and autonomously transmit a new Earth image every 3 minutes. He hopes to have this system on a great deal of his flight. We encourage the ham community to bring SSTV equipment into schools and download these images in real-time.

The ARISS team also plans to display images from hams around the world on a special on a web/blog site. A beta site has been developed and will be rolled out to the ham community in the near future.

To successfully implement the on-line SSTV picture site and support it 24/7 during Richard's flight, we will need some savvy individuals that can sort through the many SSTV photos that ARISS will receive and keep the SSTV site up to date in near real time. Some computer skills will be required. We are looking for global support from a few individuals in each international region to make this happen. That way we will not be asking individuals to volunteer all-night to realize this project. If you are interested in helping on this, please e-mail Frank Bauer, KA3HDO directly via ka3hdo@amsat.org.

[ANS thanks ARISS International Chairman Frank Bauer, KA3HDO for the above information]

/EX

SB SAT @ AMSAT $ANS-272.04
Call For AMSAT Journal Articles

AMSAT News Service Bulletin 272.04
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008
To All RADIO AMATEURS
BID: $ANS-272.04

AMSAT Journal Editor Ed, WA4SWJ said this week, "If you have articles for the Journal I need them now! Please, if you have an article to contribute to the Journal, get it to me right away. Do not delay. I want to get the Journal back on schedule."

The deadline for contributions to the Journal is the 15th of the ODD numbered months (1-3-5-7-9-11) throughout the year. The intent is to get the Journal released to the printer the first week of each EVEN numbered month.

[ANS thanks Ed, WA4SWJ for the above information]

/EX

SB SAT @ AMSAT $ANS-272.05
AMSAT-Italy Announces Joint VERTA-1 Satellite Project With AMSAT-UK

AMSAT News Service Bulletin 272.05
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008

To All RADIO AMATEURS
BID: $ANS-272.05

AMSAT-Italy President Florio LX2DV/IW2NMB said this week, "AMSAT-Italia along with AMSAT-UK has the great pleasure of announcing our joint application to launch the proposed "EuroDAST" micro-satellite onboard the Arianespace VEGA launcher, with its VERTA-1 flight opportunity."

Florio continues, "Although it be launched with a European Launcher and is based on an AMSAT-Italia mission concept, the development of such micro-satellite is open to worldwide contributions in hardware and software." Any individuals or groups of interested amateurs, universities, research centers having space based hardware or software concepts are invited to submit their ideas by e-mail to: cd@amsat.it.

More information about the Arianespace VEGA mission can be seen at: http://www.arianespace.com/launch-services-vega/vega_overview.asp.

[ANS thanks AMSAT-Italy for the above information]

/EX

SB SAT @ AMSAT $ANS-272.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 272.06
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008
To All RADIO AMATEURS
BID: $ANS-272.06

+ Information about a Google Earth plug-in plotting orbiting earth satellites can be found at:

http://www.universetoday.com/2008/09/05/explore-earths-satellites-with-google-earth/
(watch line wrap - this URL is a single line).

+ Howard, G6LVB has posted video of the successful ARISS School Contact with the Michael Sobell Sinai School, Harrow, United Kingdom at:
http://www.g6lvb.com/images/MichaelSobellSinaiSchoolHi.wmv 147Mb
http://www.g6lvb.com/images/MichaelSobellSinaiSchoolMed.wmv 45Mb
Howard recommends you download them first then play them, rather than attempting to stream. An MP4 format of the video is available at:
http://www.uk.amsat.org/content/view/669/68/

+ Congratulations to F3ZD on your 5000th contact via AO-7. Bob, W7LRD reports AO-7 contacts with OH8MBN and AL1F in Alaska.

+ The AO-27 command team will post updates on getting this satellite back on at http://www.ao27.org.

+ An interesting photo tour of the Baikonur Cosmodrome is at:

http://www.boston.com/bigpicture/2008/09/the_baikonur_cosmodrome.html#photo6
(watch line wrap - this URL is a single line).

+ Watch http://spaceweather.com/flybys/ & http://www.heavens-above.com
for visual sighting opportunites of the Shenzhou-7 spacecraft, ISS,
Jules Verne, and the Early Ammonia Service jettisoned from the ISS.

+ Have you forgotten your AMSAT Store account name or password? If
you have forgotten or misplaced your account name or password for
the AMSAT Store, simply create a new one. We hope to have someone
working on new software to give your password in the future. Until
then go ahead and make your reservations or purchases with a new
account.

[ANS thanks everyone for the above information]

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SB SAT @ AMSAT $ANS-272.07
ARISS Status Report for the Week of September 22, 2008

AMSAT News Service Bulletin 272.07
>From AMSAT HQ SILVER SPRING, MD.
September 28, 2008
To All RADIO AMATEURS
BID: $ANS-272.07

1. Upcoming School Contacts - Status

The ARISS team continues its work on scheduling the next school
radio contacts. Johnson Space Center was closed the week of
September 15 due to Hurricane Ike, delaying contact approvals.
Scheduling is expected to resume this week.

2. Richard Garriott - ISS Flight

Richard Garriott, W5KWQ, will fly with the Expedition 18 crew to
the ISS on Soyuz TMA-13 which is scheduled to launch on October 12,
2008. He plans to participate in several ARISS contacts during
his mission. A press release has been posted.
See: http://www.rac.ca/ariss/Garriott%20PR%20Final.doc

3. GSFC LaunchFest Update

On Saturday, September 13, Goddard Space Flight Center (GSFC) in
Greenbelt, Maryland held a LaunchFest event, during which the
Center's personnel manned exhibits and provided space related
demonstrations for the public. ARISS supported LaunchFest with
its own exhibit booth, providing information, distributing
lithographs and generating much interest in the program.
Approximately 13,000 attended the event. See:
http://www.nasa.gov/centers/goddard/news/topstory/2008/launchfest_recap.html

4. ASTC - ARISS Presentation

The Association of Science - Technology Centers (ASTC) will hold its 2008 annual conference on October 18-21 in Philadelphia, Pennsylvania. Ten presenters from NASA will describe NASA's education and outreach programs and NASA resources. ARISS Deputy Program Manager Mark Steiner, K3MS, will give an ARISS overview. For more information on this event, see: http://www.astc.org/conference/index.htm

5. ARISS Volunteer Receives Award

Nancy Rabel Hall, a Research Scientist working at NASA Glenn Research Center and the current president of the NASA Glenn Amateur Radio Club, was the 15th recipient of the Allan Severson, AB8P memorial award. The Ohio ARRL (American Radio Relay League) Section Manager presents this award each year. Hall has assisted three local schools with ARISS contacts. For more information, see: http://www.arrlohio.org/arrl_allan_severson.htm

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

175. Johshe 31 year old Woman in Santa Ana, California. Find Men for 1-on-1 sex, Bondage

Newsgroup: rec.radio.amateur.space
Date: 2008-09-28 17:49:10 UTC
From: bluebonysh@gmail.com
Message-ID: <19ec999b-b68a-4544-bfc4-6fb039f14080@z72g2000hsb.googlegroups.com>
Source record: 655
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

Johshe 31 year old Woman in Santa Ana, California. Find Men for 1-on-1
sex, Bondage, Discipline, Discreet Relationship or Group sex
http://ragdai.info/Johshe3.htm

176. Super virtual girl. Sexy. Must look ALL!

Newsgroup: rec.radio.amateur.space
Date: 2008-09-29 15:45:51 UTC
From: bluebonysh@gmail.com
Message-ID: <41d0f6fb-a813-4080-b4f5-4ce7ec980f3f@m44g2000hsc.googlegroups.com>
Source record: 656
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

Super real virtual girl. Sexy. Must look ALL http://ragdai.info/video.htm

177. Webcam: Landie,19 year.New Jersey. Viens me voir et tu verras!

Newsgroup: rec.radio.amateur.space
Date: 2008-09-30 11:44:58 UTC
From: bluebonysh@gmail.com
Message-ID: <b80f18e8-9536-4eb0-b196-34f67d4875de@25g2000hsx.googlegroups.com>
Source record: 657
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

Webcam: Landie,19 year.New Jersey. Viens me voir et tu verras!
http://ragdai.info/landie1989.htm

178. WSR-276 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-10-04 13:29:22 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000c01c92625$2beb0dc0$83c12940$@net>
Source record: 658
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-276.S1
WSR 276 Part 1 10/02/2008

AMSAT NEWS SERVICE BULLETIN 276.S1 FROM AMSAT HQ
SILVER SPRING, MD, October 02, 2008
TO ALL RADIO AMATEURS
BID: $ANS-276.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear

V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10022008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Recovery Efforts

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[09252008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[08072008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-276.S2
WSR 276 Part 2 10/02/2008

AMSAT NEWS SERVICE BULLETIN 276.S2 FROM AMSAT HQ
SILVER SPRING, MD, October 02, 2008
TO ALL RADIO AMATEURS
BID: $ANS-276.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM

[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Softawre Reload

Current Modes: FM Repeater - V/u
BBS - L/u
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB

145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 Digital, PBP, 1 watt output
435.150 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Digital, Pacsat Broadcast
Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10022008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:
Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[06122008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-276.S3
WSR 276 Part 3 10/02/2008

AMSAT NEWS SERVICE BULLETIN 276.S3 FROM AMSAT HQ
SILVER SPRING, MD, October 02, 2008
TO ALL RADIO AMATEURS
BID: $ANS-276.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-276.S4
WSR 276 Part 4 10/02/2008

AMSAT NEWS SERVICE BULLETIN 276.S4 FROM AMSAT HQ
SILVER SPRING, MD, October 02, 2008
TO ALL RADIO AMATEURS
BID: $ANS-276.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS TIME:

Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-276.S5
WSR 276 Part 5 10/02/2008

AMSAT NEWS SERVICE BULLETIN 276.S5 FROM AMSAT HQ
SILVER SPRING, MD, October 02, 2008
TO ALL RADIO AMATEURS
BID: $ANS-276.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Operational
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

179. ANS-279 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-10-05 13:04:45 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c926ea$ebc04960$c340dc20$@net>
Source record: 659
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-279

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
****

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a
worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Symposium Just Weeks Away
* First Chinese Amateur Radio Satellite to be launched in June 2009
* General Astrodynamics Library v0.4.0 Released
* Falcon 1 Rocket Successfully Launches to Orbit
* ARISS Status - 29 September 2008

SB SAT @ AMSAT $ANS-279.01
AMSAT Symposium Just Weeks Away

AMSAT News Service Bulletin 279.01
From AMSAT HQ SILVER SPRING, MD.
October 5, 2008
To All RADIO AMATEURS
BID: $ANS-279.01

The 2008 AMSAT Space Symosium in Atlanta, GA is
just weeks away, October 24-26.
This promises to be a very interesting symposium
with presentations scheduled on
a wide range of topics from the simplest operations with an HT to some of
the
latest ideas on digital communications. Every orbit; LEO, MEO, Geo and
beyond
will be covered. There will also be an extended general membership meeting
as
well as the ever popular Field Ops Breakfast.

Martha reminds everyone that room block with the
special $125 per night rate for
the 2008 AMSAT Space Symposium will be gone on October 8th. PLEASE make
your
reservations as soon as possible. The phone number is 404-231-1234.

The AMSAT board meeting preceeds the Symposium at the same hotel Oct 23-24.

[ANS thanks the 2008 Symposium Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-279.02
First Chinese Amateur Radio Satellite to be launched in June 2009

AMSAT News Service Bulletin 279.02
From AMSAT HQ SILVER SPRING, MD.
October 5, 2008
To All RADIO AMATEURS
BID: $ANS-279.02

Michael Chen, BD5RV/4, reports that he recently received an update from
Alan,
BA1DU, on the progress of the first Chinese amateur satellite. Things are
now
going smoothly. This satellite was formerly named CAS-1 and is now XW-1. It
carries a beacon and three cross band transponders: FM, linear, and digital.

The satellite is planned to be launched into a Sun synchronous orbit in June
2009 by a CZ-2C rocket in Taiyuan Satellite Launch Center in North China.

[ANS thanks Michael, BD5RV/4, for the above information]

/EX

SB SAT @ AMSAT $ANS-279.03
General Astrodynamics Library v0.4.0 Released

AMSAT News Service Bulletin 279.03
From AMSAT HQ SILVER SPRING, MD.
October 5, 2008
To All RADIO AMATEURS
BID: $ANS-279.03

Version 0.4.0 of the General Astrodynamics Library has been released.
It can be downloaded from the project website here:

http://homepage.mac.com/pclwillmott/GAL/index.html

Updates in this release:

Higher precision ephemerides for the Sun, Planets, and Pluto.
Implemented using VSOP87. Heliocentric and barycentric routines for
position and velocity provided.

Support added for classical Keplerian models, circular, elliptical, parabolic, and hyperbolic orbits and trajectories supported. Keplerian propagation implemented using the Universal formulation.

Release includes some additional support files, and minor updates.

Work continues with the atmosphere, and remaining force models.

The General Astrodynamics Library (GAL) is a numerical library for C and C++ programmers. It is free software under the GNU General Public License.

The library provides a wide range of astrodynamical routines such as ephemerides, earth orientation, and orbit propagation. There are over 250 functions in total with an extensive test suite.

[ANS thanks Paul, VP9MU, for the above information]
/EX

SB SAT @ AMSAT $ANS-279.04
Falcon 1 Rocket Successfully Launches to Orbit

AMSAT News Service Bulletin 279.04
From AMSAT HQ SILVER SPRING, MD.
October 5, 2008
To All RADIO AMATEURS
BID: $ANS-279.04

Space Exploration Technologies Corp. (SpaceX) announces that Flight 4 of the Falcon 1 launch vehicle has successfully launched
and achieved Earth orbit. With
this key milestone, Falcon 1 becomes the first privately developed liquid fuel
rocket to orbit the Earth.

"This is a great day for SpaceX and the culmination of an enormous amount of work by a great team," said Elon Musk, CEO and
CTO of SpaceX. "The data shows we
achieved a super precise orbit insertion-middle of the bull's-eye - and then went on to coast and restart the second stage, which was icing on the cake."

The Falcon 1 lifted off at 4:15 p.m. (PDT) / 23:15 (UTC) from the Reagan Test
Site (RTS) on Omelek Island at the U.S. Army Kwajalein Atoll (USAKA) in the Central Pacific, about 2,500 miles southwest of Hawaii.

Preliminary data indicates that Falcon 1 achieved an elliptical orbit of 500 km
by 700 km, 9.2 degrees inclination-exactly as targeted.

Falcon 1 carried into orbit a payload mass simulator of approximately 165 kg (364 lbs), designed and built by SpaceX, specifically for this mission. Consisting of a hexagonal aluminum alloy chamber 1.5 meters (5 feet) tall, the
payload remains attached to the second stage as it orbits Earth.

For more information about the Falcon family of vehicles, and to watch the archived video of the Falcon 1, Flight 4 launch, visit the SpaceX website at www.spacex.com

[ANS thanks SpaceX for the above information]
/EX

SB SAT @ AMSAT $ANS-279.05
ARISS Status - 29 September 2008

AMSAT News Service Bulletin 279.05
From AMSAT HQ SILVER SPRING, MD.
October 5, 2008
To All RADIO AMATEURS
BID: $ANS-279.05

1. Upcoming School Contact - Status

The Amateur Radio on the International Space Station (ARISS) team continues its
work on scheduling the next school radio contacts.

2. ARISS - UK School Contact, Successful

Students attending the Michael Sobell Sinai School in Harrow, Middlesex, UK experienced an Amateur Radio on the International Space Station (ARISS) contact
on Thursday, September 25 via telebridge station WH6PN in Hawaii. Eleven students asked astronaut Greg Chamitoff, KD5PKZ,
15 questions before an audience
of 200. The audio was fed into the EchoLink AMSAT server and received 15 connections from seven countries. Four television stations covered this event.
The BBC article may be viewed here:
http://news.bbc.co.uk/2/hi/uk_news/england/london/7636229.stm

3. Astronaut Training Status

Shannon Walker, KD5DXB, participated in an ARISS (Amateur Radio on the International Space Station) training session on Monday, September 22. She plans to support ARISS activities when she flies on a future ISS Expedition.

4. ARISS International Meeting Held

The Amateur Radio on the International Space Station (ARISS) team held its monthly teleconference on September 23. Discussions covered the flight backup
ARISS equipment, including the Kenwood D700 radio, which is expected to be swapped out at the end of the month. Other items on the agenda were Richard Garriott's ARISS schedule and SuitSat-2 progress. The minutes have been posted
to the ARISS Web site. See: http://www.rac.ca/ariss/arisstel2008-09-23.htm

5. CLC Posts Garriott Press Release

The Challenger Learning Center (CLC) has posted a
press release covering Richard
Garriott and his upcoming Amateur Radio on the International Space Station
(ARISS) contacts with CLCs across the country. See:
http://www.challenger.org/about/media/release.cfm?release_id=79

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the
President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

180. New Jersey webcam: Landie

Newsgroup: rec.radio.amateur.space
Date: 2008-10-06 13:38:21 UTC
From: bluebonysh@gmail.com
Message-ID: <a1b8e705-559c-4cb7-9f10-749c48a5d18e@w32g2000hsf.googlegroups.com>
Source record: 660
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

Webcam: Landie,19 year.New Jersey. Viens me voir et tu verras!
http://datesex.xhostar.com/landie1989.htm

181. Halle Berry's uncut Sex Scene in Monsters Ball

Newsgroup: rec.radio.amateur.space
Date: 2008-10-09 16:22:30 UTC
From: bluebonysh@gmail.com
Message-ID: <01ec6cec-98e7-45d9-be1a-21030025af85@p58g2000hsb.googlegroups.com>
Source record: 661
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

Halle Berry's uncut Sex Scene in Monsters Ball
http://spirs_manyac.googlegroups.com/web/halle
berry.htm

182. Radio Meteor Obs. Bull. August September September Perseids / outburst Sept 30

Newsgroup: rec.radio.amateur.space
Date: 2008-10-10 13:01:36 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <2fkue4dogdiocq30hsn2kklt9md9pmbobs@4ax.com>
Source record: 662
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 182 of September 2008 (72 K) is available
now as

http://visualrmob.free.fr/rmobtext/rmob0809.txt

More information and the visual presentation of the hourly forward scatter
counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

183. WSR-283 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-10-11 02:15:14 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001001c92b47$2bc89d90$8359d8b0$@net>
Source record: 663
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-283.S1
WSR 283 Part 1 10/09/2008

AMSAT NEWS SERVICE BULLETIN 283.S1 FROM AMSAT HQ
SILVER SPRING, MD, October 09, 2008
TO ALL RADIO AMATEURS
BID: $ANS-283.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V/u
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear

U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10092008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10092008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-283.S2
WSR 283 Part 2 10/09/2008

AMSAT NEWS SERVICE BULLETIN 283.S2 FROM AMSAT HQ
SILVER SPRING, MD, October 09, 2008
TO ALL RADIO AMATEURS
BID: $ANS-283.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V/u
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM

Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10092008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Mode: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - OFF

Expedition 17 crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10092008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-283.S3
WSR 283 Part 3 10/09/2008

AMSAT NEWS SERVICE BULLETIN 283.S3 FROM AMSAT HQ
SILVER SPRING, MD, October 09, 2008
TO ALL RADIO AMATEURS
BID: $ANS-283.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]

=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-283.S4
WSR 283 Part 4 10/09/2008

AMSAT NEWS SERVICE BULLETIN 283.S4 FROM AMSAT HQ
SILVER SPRING, MD, October 09, 2008
TO ALL RADIO AMATEURS
BID: $ANS-283.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]

=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-283.S5
WSR 283 Part 5 10/09/2008

AMSAT NEWS SERVICE BULLETIN 283.S5 FROM AMSAT HQ
SILVER SPRING, MD, October 09, 2008
TO ALL RADIO AMATEURS
BID: $ANS-283.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

184. BDSM in BDSM mpeg

Newsgroup: rec.radio.amateur.space
Date: 2008-10-15 14:22:27 UTC
From: bluebonysh@gmail.com
Message-ID: <03c09a58-c602-4d15-892a-03c3dceff160@25g2000prz.googlegroups.com>
Source record: 664
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

BDSM http://youtubeplayer.byethost9.com/jpeg/bdsm.html BDSM

185. WSR-290 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-10-16 11:54:47 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000001c92f85$f0d904c0$d28b0e40$@net>
Source record: 665
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-290.S1
WSR 290 Part 1 10/16/2008

AMSAT NEWS SERVICE BULLETIN 290.S1 FROM AMSAT HQ
SILVER SPRING, MD, October 16, 2008
TO ALL RADIO AMATEURS
BID: $ANS-290.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - L/s
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear

U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10162008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 17 Crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Spaceflight Participant: Richard Garriott W5KWQ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.

[10162008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-290.S2
WSR 290 Part 2 10/16/2008

AMSAT NEWS SERVICE BULLETIN 290.S2 FROM AMSAT HQ
SILVER SPRING, MD, October 16, 2008
TO ALL RADIO AMATEURS
BID: $ANS-290.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712

Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]

=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - L/s
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10162008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B

Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz

[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 17 Crew:
Commander: Sergey Volkov RU3DIS
Flight Engineer: Oleg Kononenko RN3DX
Flight Engineer: Greg Chamitoff KD5PKZ

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Spaceflight Participant: Richard Garriott W5KWQ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10162008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-290.S3
WSR 290 Part 3 10/16/2008

AMSAT NEWS SERVICE BULLETIN 290.S3 FROM AMSAT HQ
SILVER SPRING, MD, October 16, 2008
TO ALL RADIO AMATEURS
BID: $ANS-290.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-

sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz

24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]

=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW

Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-290.S4
WSR 290 Part 4 10/16/2008

AMSAT NEWS SERVICE BULLETIN 290.S4 FROM AMSAT HQ
SILVER SPRING, MD, October 16, 2008
TO ALL RADIO AMATEURS
BID: $ANS-290.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-290.S5
WSR 290 Part 5 10/16/2008

AMSAT NEWS SERVICE BULLETIN 290.S5 FROM AMSAT HQ
SILVER SPRING, MD, October 16, 2008
TO ALL RADIO AMATEURS
BID: $ANS-290.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors

to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the
memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,
G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

186. Looking for bondage webcam?

Newsgroup: rec.radio.amateur.space
Date: 2008-10-17 11:08:59 UTC
From: bluebonysh@gmail.com
Message-ID: <3eb5e9c3-50a0-45e1-ba64-214773ccafe4@2g2000hsn.googlegroups.com>
Source record: 666
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

View explicit live Webcams, meet for amateur scenes!
http://puntyhouse.byethost11.com/altcam.htm

187. ANS-293 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-10-19 01:33:29 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000201c93188$8fa72920$aef57b60$@net>
Source record: 667
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-293

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

****
*** 2008 AMSAT Space Symposium and Annual General Meeting ***
*** October 24-26 in Atlanta, Georgia ***
*** http://www.amsat.org/amsat-new/symposium/2008/index.php ***
****

In this edition:

* 2008 AMSAT Space Symposium Begins This Week
* 2008 AMSAT Space Symposium Presentations List
* Richard Garriott Amateur Radio Operations Commence From ISS
* Delfi-C3 in Telemetry Mode
* AMSAT Receives CFC Certification for 2008
* WinAPRS Writer Hurt in Balloon Crash

SB SAT @ AMSAT $ANS-293.01
2008 AMSAT Space Symposium Begins This Week

AMSAT News Service Bulletin 293.01
>From AMSAT HQ SILVER SPRING, MD.
October 19, 2008
To All RADIO AMATEURS
BID: $ANS-293.01

The 2008 Harry Yoneda JA1ANG AMSAT Space Symposium and Annual Meeting is right on schedule for October 24-26, 2008.

Highlights of the weekend include:

+ Board of Director's Meeting on October 23 - 24.

+ AMSAT-NA General Membership Meeting on Saturday, October 25 from 10-12 AM Eastern Daylight Time (UTC-4). The AMSAT General Meeting will be broadcast on EchoLink AMSAT Conference, node 101377. Users may ask questions via the chat link.

+ AMSAT Annual Banquet will be held on Saturday evening October 25.
The banquet speaker is Daniel Schultz, N8FQV who will describe the
The Hubble Space Telescope Repair Mission.

+ AMSAT's Field Operations Breakfast will be held on Sunday morning,
October 26.

+ A free Sunday morning workshop 'Introduction to Digital Signal
Processing' presented by Phil Harman, VK6APH.

+ The grand prize to be given away at the Banquet this year is an
ICOM IC-910.

The full Symposium Schedule will be posted on-line:
http://www.amsat.org/amsat-new/symposium/2008/index.php

[ANS thanks the 2008 Symposium Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-293.02
2008 AMSAT Space Symposium Presentations List

AMSAT News Service Bulletin 293.02
>From AMSAT HQ SILVER SPRING, MD.
October 19, 2008
To All RADIO AMATEURS
BID: $ANS-293.02

A list of the 2008 Symposium Talks has been released and includes:

+ Anthony Monteiro, AA2TX - Space Radio for Windows

+ Lï¿½pez Villalobos Josï¿½ de Jesï¿½s, XE2N; ï¿½lvarez Cï¿½rdenas Omar,
XE1AO;
Dora Luz Candanosa Salazar XE2DLC - Modeling Robot Control for AO-51
Satellite Follower

+ Paul Marsh, M0EYT - S-band and X-band deep space reception

+ Tim Salo, AB0DO - Proposed Network-Centric Architecture for the ACP

+ JoAnne Maenpaa, K9JKM - AMSAT Opportunities for Communications
Interoperability

+ Richard Chapman, KC4IFB, Jean-Marie Wersinger KI4YAU; Thor Wilson;
John Klingelhoeffer, WB4LNM - AubieSat1:A Student Designed CubeSat
Developed at Auburn University

+ David Bowman, G0MRF - Medium Earth Orbit - An Affordable Alternative
to HEO

+ Joe Lynch, N6CL - The Meteor Shower Nobody Saw ï¿½ Revisited

+ Tim Lilley, N3TL - Handheld FM Satellite Stations : Meeting FCC Part
97.1 with a Superb Tool for Recruiting New Operators

+ Tom Clark, K3IO - Taking Eagle to New Heights: A Strawman Design for a Geostationary Amateur Satellite

+ Frank Bauer, KA3HDO - ARISS

+ Lou McFadin, W5DID - SuitSat-2/Radioskaf-2: The second Amateur Radio Space Suit project and stepping stone to future small amateur satellites

+ Christian Rodriguez, Henric Boiardt - Using Iridium's satellite network
for amateur satellite communications in Low Earth Orbit

+ Bill Ress, N6GHZ - ITAR and AMSAT

+ Phil Karn, KA9Q - Power-efficient FEC-coded low rate telemetry formats

+ Giulio Pezzi, IZ4FVW/AB2VY - HSSDT Project - High Speed Satellite Data

Transmitter

+ Gould Smith, WA4SXM - AO-51 Operations Before, During and After the No

Eclipse Period

+ Fred Kennedy, ZL1BYP - KiwiSat, A Communications Satellite for New Zealand (presented by Bill Ress, N6GHZ)

+ Hans van de Groenendaal, ZS6ZKV - SumbandilaSat UpOctober 19
(presented by

Gould Smith, WA4SXM)

+ Howard Long, G6LVB - P3E's Software Defined Transponder (SDX)

+ Phil Harman, VK6APH - Introduction to Digital Signal Processing

[ANS thanks the 2008 Symposium Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-293.03
Richard Garriott Amateur Radio Operations Commence From ISS

AMSAT News Service Bulletin 293.03
>From AMSAT HQ SILVER SPRING, MD.
October 19, 2008
To All RADIO AMATEURS
BID: $ANS-293.03

ARISS International Chairman, and AMSAT-NA V.P. for Human Spaceflight Programs, Frank Bauer, KA3HDO reported Richard Garriott is now on-orbit after a successful launch. The Soyuz crew has completed docking with the ISS as of October 14. All are aboard the ISS.

Richard has commenced amateur radio activity from the ISS using FM phone, Slow-Scan Television (SSTV), and packet operations. The ARISS

team encourages hams to upload their ISS SSTV pictures on the ARISS SSTV Gallery. In addition, we are posting late breaking information and pictures on the ARISS SSTV blog.

The blog is at:
http://www.ariss-sstv.blogspot.com/

And the gallery is at:
http://www.amsat.com/ARISS_SSTV/

There are links at the Gallery site to submit your SSTV pictures. Also included are helpful hints for SSTV operations during Richard Garriott's

flight. ARISS appreciates your SSTV picture submissions to the gallery.

Amateur stations around the world have reported hearing FM voice and SSTV operation while the ISS crew is awake. Packet operations are planned for operation during the crew sleep period (20:30-05:00 UTC).

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

[ANS thanks ARISS for the above information]

/EX

SB SAT @ AMSAT $ANS-293.04
Delfi-C3 in Telemetry Mode

AMSAT News Service Bulletin 293.04
>From AMSAT HQ SILVER SPRING, MD.
October 19, 2008
To All RADIO AMATEURS
BID: $ANS-293.04

Wouter Jan Ubbels PE4WJ, reports the Delfi-C3/DO-64 teama has successfully switched their Delfi-C3 satellite into basic mode.

This means Delfi-C3 is currently transmitting 1200bit/s BPSK house-keeping telemetry on the primary downlink frequency of 145.870MHz.

In this mode, AX.25 frames containing housekeeping telemetry are transmitted approximately once every 4-5 secs, with the rest of the transmission being filled with idle flags.

The Delfi team encourages everyone to receive, decode and forward telemetry using the RASCAL software as previously done during the first three months of science mission. The RASCAL telemetry decoding software can be downloaded at: http://www.delfic3.nl/rascal

At this moment, the Delfi team does not know how long the satellite will be in this mode, but they are planning on a couple of weeks of telemetry operations. You can stay informed on their mission operations page at

http://www.delfic3.nl/index.php?option=com_content&task=view&id□&
Itemid
2

and via the AMSAT-BB. They will regularly post on and monitor the OSCAR status page at http://oscar.dcarr.org/ as well.

[ANS thanks Wouter Jan Ubbels PE4WJ for the above information]

/EX

SB SAT @ AMSAT $ANS-293.05
AMSAT Receives CFC Certification for 2008

AMSAT News Service Bulletin 293.05
>From AMSAT HQ SILVER SPRING, MD.
October 19, 2008
To All RADIO AMATEURS
BID: $ANS-293.05

The Office of Combined Federal Campaign Operations has approved AMSAT-NA for participation in the 2008 CFC. The CFC, or Combined Federal Campaign, is the U.S. Government equivalent of the United Way in the private sector. The campaign affords all US Government employees the opportunity to make donations from their regular paychecks to CFC approved Charities.

This stamp of approval means that AMSAT has met the strict standards set by the U.S. Office of Personnel Management (OPM) assuring donors that our programs of work, financial, and operations meet the standards for eligible volunteer agencies.

Those AMSAT supporters who which to make payroll contributions should Select the Radio Amateur satellite Corporation (AMSAT) during their campaign this coming fall. The AMSAT CFC Charity number is 10158. Payroll
deduction is a simple, convenient way to support your AMSAT.

Gunther Meisse W8GSM
Treasurer, AMSAT North America

[ANS thanks Gunther, W8GSM for the above information]

/EX

SB SAT @ AMSAT $ANS-293.06
WinAPRS Writer Hurt in Balloon Crash

AMSAT News Service Bulletin 293.06
>From AMSAT HQ SILVER SPRING, MD.
October 19, 2008
To All RADIO AMATEURS
BID: $ANS-293.06

ANS received news via Amateur Radio Newsline that a ham known to many in AMSAT has been critically injured in a hot air balloon crash at the Albuquerque International Balloon Fiesta on Friday, October 10th. Another passenger aboard the ballon was killed in the crash.

Killed in the crash was Stephen Lachendro, of Butler, Pennsylvania. Keith Sproul, WU2Z, was critically injured in the accident when the 'Wings of Wind' balloon hit powerlines near the festival grounds just North of the city.

According to news reports, there were gusty winds as the two balloonists were trying to land. From pictures taken by attendees, it appears as if the basket carrying the men caught fire after hitting the power lines, separated from the balloon envelope and fell to the ground.

First responders reported that Lachendro was found lying on the side of a ditch after falling 45 feet to his death. Sproul who was reportedly piloting the balloon jumped some 60 feet from the burning gondola. WU2Z was unconscious when he was found and was flown by helicopter to a local hospital where he was admitted in critical condition. Reports say that he suffered a broken leg and hip, punctured lungs and burns to his face.

Keith Sproul is the twin brother Mark Sproul, KB2ICI. The two are best known in ham radio circles as the co-authors of the popular WinAPRS, MacAPRS and X-APRS APRS is the multi-faceted position reporting system originally developed by Bob Bruninga, WB4APR. It allows the monitoring of real time geographical information such as the position of vehicles, the status of weather, radio direction finding and much more.

According to a National Guard spokesman at the scene, the National Transportation Safety Board will investigate this latest crash.

[ANS thanks the Amateur Radio Newsline for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors

to AMSAT Project Funds, will be eligible to receive additional benefits.
Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

188. Scandalous video reason Divorce Madonna and Ricchi

Newsgroup: rec.radio.amateur.space
Date: 2008-10-21 11:01:19 UTC
From: bluebonysh@gmail.com
Message-ID: <2b4cd35a-dfa0-4dd7-bed4-082d8c14254f@u46g2000hsc.googlegroups.com>
Source record: 668
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

http://www.madonascandal.byethost31.com Madonna page featuring
exclusive Madonna videos, Madonna photos, and Madonna news,Madonna
videos, Madonna news, Madonna photos, Madonna videos, Madonna gossip.
Scandalous video reason end-marriage Madonna and Ricchi

189. VIRUS ! VIRUS ! Scandalous video reason Divorce Madonna and Ricchi

Newsgroup: rec.radio.amateur.space
Date: 2008-10-21 21:39:57 UTC
From: barnegatdx <barnegatdx@aol.com>
Message-ID: <414cfef6-f780-4e97-9cad-79f539773a0c@b1g2000hsg.googlegroups.com>
Source record: 669
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

On Oct 21, 7:01 am, bluebon...@gmail.com wrote:
> http://www.madonascandal.byethost31.com Madonna page featuring
> exclusive Madonna videos, Madonna photos, and Madonna news,Madonna
> videos, Madonna news, Madonna photos, Madonna videos, Madonna gossip.
> Scandalous video reason end-marriage Madonna and Ricchi

yeah, right;

190. BDSM HARDCORE 1 Tb movi

Newsgroup: rec.radio.amateur.space
Date: 2008-10-23 13:20:15 UTC
From: bluebonysh@gmail.com
Message-ID: <0a24d6eb-19ce-46d6-bc1c-b7674e244dc7@m32g2000hsf.googlegroups.com>
Source record: 670
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

http://traxanki.byethost15.com/bdsm.htm BDSM http://traxanki.byethost15.com/hardcore.htm HARDCORE http://s0x0.blogspot.com
http://groups.google.com/group/porntube-best-movies-collection

191. BDSM HARDCORE 1 Tb movi

Newsgroup: rec.radio.amateur.space
Date: 2008-10-25 13:41:50 UTC
From: bluebonysh@gmail.com
Message-ID: <2667fecb-5a61-45e7-9a4e-e10fcb8c40c9@p59g2000hsd.googlegroups.com>
Source record: 671
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

http://traxanki.byethost15.com/bdsm.htm BDSM http://traxanki.byethost15.com/hardcore.htm HARDCORE http://s0x0.blogspot.com
http://groups.google.com/group/porntube-best-movies-collection

192. WSR-297 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-10-26 15:27:31 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <003c01c9377f$59987df0$0cc979d0$@net>
Source record: 672
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-297.S1
WSR 297 Part 1 10/23/2008

AMSAT NEWS SERVICE BULLETIN 297.S1 FROM AMSAT HQ
SILVER SPRING, MD, October 23, 2008
TO ALL RADIO AMATEURS
BID: $ANS-297.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Software reload

Current Modes: FM Repeater - V-SSB/u
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear

U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10232008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-297.S2
WSR 297 Part 2 10/23/2008

AMSAT NEWS SERVICE BULLETIN 297.S2 FROM AMSAT HQ
SILVER SPRING, MD, October 23, 2008
TO ALL RADIO AMATEURS
BID: $ANS-297.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-SSB/u
V/u
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM

Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10232008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-297.S3
WSR 297 Part 3 10/23/2008

AMSAT NEWS SERVICE BULLETIN 297.S3 FROM AMSAT HQ
SILVER SPRING, MD, October 23, 2008
TO ALL RADIO AMATEURS
BID: $ANS-297.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]

=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-297.S4
WSR 297 Part 4 10/23/2008

AMSAT NEWS SERVICE BULLETIN 297.S4 FROM AMSAT HQ
SILVER SPRING, MD, October 23, 2008
TO ALL RADIO AMATEURS
BID: $ANS-297.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]

=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-297.S5
WSR 297 Part 5 10/23/2008

AMSAT NEWS SERVICE BULLETIN 297.S5 FROM AMSAT HQ
SILVER SPRING, MD, October 23, 2008
TO ALL RADIO AMATEURS
BID: $ANS-297.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

193. Democrats sexy meltdown

Newsgroup: rec.radio.amateur.space
Date: 2008-10-28 18:22:22 UTC
From: bluebonysh@gmail.com
Message-ID: <2a038f06-dc8f-4053-9b55-b97377806f77@d42g2000prb.googlegroups.com>
Source record: 673
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

http://salo.coolpage.biz/amateur.htm read full Natalie felt it was only fair that I remove the gag from Bills mouth so he could answer his loving wife and daughters probing questions. After clearing his throat he said something that I will never forget Hillary I feel your pain http://groups.google.com/group/sexual-meltdown http://sexual-meltdown.blogspot.com/

194. Devil Or Angel Lucy Finds Out sexo

Newsgroup: rec.radio.amateur.space
Date: 2008-10-30 12:40:07 UTC
From: bluebonysh@gmail.com
Message-ID: <8bb1d326-26f8-49b9-bfbf-8751897feae6@f63g2000hsf.googlegroups.com>
Source record: 674
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

On a warm summer night last year, Lucy was walking alone on the side
of the road near a secluded ornamental park. http://sabir.servik.com/hardcore.htm
http://bdsm-big-tits.blogspot.com/ http://groups.google.com/group/salbon-lesbi

195. Sex movies and flash porn videos.

Newsgroup: rec.radio.amateur.space
Date: 2008-10-31 14:14:21 UTC
From: bluebonysh@gmail.com
Message-ID: <ca51ed08-88f1-4804-aebc-3d44e94d3635@k36g2000pri.googlegroups.com>
Source record: 675
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

http://sexos69.freetzi.com/ Full free porn videos and DVDs. The ultimate xxx porn and sex site, download or stream free full xxx sex DVDs. porn, sex, porno, free porn, porn tube, porn videos, stream porn, free streaming porn, full sex videos porn,porn movies,free porn,sex,porno,free sex,tube porn http://sexos69.freetzi.com/ http://sexos69.blogspot.com/ http://groups.google.com/group/sexos69

196. WSR-304 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-11-01 00:14:10 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001501c93bb6$b68a3f90$239ebeb0$@net>
Source record: 676
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into FIVE parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-304.S1
WSR 304 Part 1 10/30/2008

AMSAT NEWS SERVICE BULLETIN 304.S1 FROM AMSAT HQ
SILVER SPRING, MD, October 30, 2008
TO ALL RADIO AMATEURS
BID: $ANS-304.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-SSB/u-FM
V-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear

U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10302008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-304.S2
WSR 304 Part 2 10/30/2008

AMSAT NEWS SERVICE BULLETIN 304.S2 FROM AMSAT HQ
SILVER SPRING, MD, October 30, 2008
TO ALL RADIO AMATEURS
BID: $ANS-304.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-SSB/u-FM
V-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM

Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[10302008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-304.S3
WSR 304 Part 3 10/30/2008

AMSAT NEWS SERVICE BULLETIN 304.S3 FROM AMSAT HQ
SILVER SPRING, MD, October 30, 2008
TO ALL RADIO AMATEURS
BID: $ANS-304.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]

=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-304.S4
WSR 304 Part 4 10/30/2008

AMSAT NEWS SERVICE BULLETIN 304.S4 FROM AMSAT HQ
SILVER SPRING, MD, October 30, 2008
TO ALL RADIO AMATEURS
BID: $ANS-304.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]

=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-304.S5
WSR 304 Part 5 10/30/2008

AMSAT NEWS SERVICE BULLETIN 304.S5 FROM AMSAT HQ
SILVER SPRING, MD, October 30, 2008
TO ALL RADIO AMATEURS
BID: $ANS-304.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

197. ANS-307 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-11-03 02:56:45 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001801c93d39$0384e100$0a8ea300$@net>
Source record: 677
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-307

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AMSAT Symposium notes
* Note from Owen Garriot
* ARISS Status - 27 October 2008
* ARISS contact video posted
* AO-51 Mode requests due

SB SAT @ AMSAT $ANS-307.01
AMSAT Symposium notes

AMSAT News Service Bulletin 307.01
From AMSAT HQ SILVER SPRING, MD.
October 26, 2008
To All RADIO AMATEURS
BID: $ANS-307.01

Now that Atlanta is behind us, we learned that AMSAT is in the same boat financially as the rest of the country. Our goals are still the same, however, the dates for future projects were taken out of the Vision Statement to reflect the reality of the launch environment.
The new BOD met and elected a new slate of officers. Their plates are quite full and they have a huge task in front of them . The Symposium had many interesting presentations including new ways to become satellite active. HEO and MEO were discussed.
The Banquet was well attended and a great presentation on the Hubble Space Telescope by one of the actual "keepers," Dan Shultz, gave inside information on real time happenings.
The next Symposium site has not been selected, however, 2009 is our 40th anniversary so hopefully many of you will attend! Thanks to the Atlanta gang for providing a

wonderful adventure.

[ANS thanks Dee, NB2F for the above information]

/EX

SB SAT @ AMSAT $ANS-307.02
Note from Owen Garriot

AMSAT News Service Bulletin 307.02
From AMSAT HQ SILVER SPRING, MD.
October 26, 2008
To All RADIO AMATEURS
BID: $ANS-307.02

All,
I received the following e-mail today from Owen Garriott, W5LFL and wanted to share this with the Amateur Community. Please post this and pass it to others in the amateur radio community, as appropriate.
73, Frank H. Bauer, KA3HDO
AMSAT-NA V.P. for Human Spaceflight Programs
ARISS International Chairman

Richard, W5KWQ, landed in Kazakhstan on Friday, 24 October 2008 at about 0936 local time and was met there by his father Owen, W5LFL. They became the first American "second generation" father/son combination to have both flown in space and the first cosmonaut/astronaut-trained pair in the world. They returned to Star City near Moscow that afternoon for medical evaluation and this is the first interview provided by Richard the very next day. It is transcribed and delivered by Owen to the ham community.
"On my recent flight I had the great opportunity to speak directly with and trade call signs with hundreds of hams around the globe. For me it was a unexpected joy to find so many enthusiastic hams, who were so well informed and interested in my activities in orbit. When I began my transmissions with preplanned SSTV images including "pirate messages", test patterns and family images, I did not know how they would be received. But it seemed that fellow hams really enjoyed seeing this beginning to my time on the International Space Station (ISS).
Throughout the bulk of my 10 days on the ISS I tried to be speaking by voice or transmitting SSTV images whenever possible.
After my first 100 or so QSOs, I understood how well "networked" the global ham community really is. I received specific reports back through Mission Control-Moscow about technical aspects of my work and how the community was enjoying the transmissions. This redoubled my enthusiasm to do quality work for the amateur radio legions around the world as I realized how much it meant to those with whom I had the chance to talk.
By late in my flight I had contacted many hundreds of hams by voice and I have good records of these contacts. Finally I sent some "Goodbye" images on my last day in space. I also contacted many hams that had listened to or contacted my father from space 25 years ago. Some hams I contacted 2 to 4 times on my flight.

On those last days I was very moved when sent many "soft landing" messages from individuals and classrooms full of children as I passed by. The ham community has added greatly to my personal feelings of success on my flight. I can only hope that you enjoyed it as much as I did.
Thanks so much and 73, Richard, W5KWQ"

[ANS thanks Frank, KA3HDO, for the above information]

/EX

SB SAT @ AMSAT $ANS-307.03
ARISS Status - 27 October 2008

AMSAT News Service Bulletin 307.03
From AMSAT HQ SILVER SPRING, MD.
November 02, 2008

To All RADIO AMATEURS
BID: $ANS-307.03

Amateur Radio on the International Space Station (ARISS) Status Report
October 27, 2008

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with Scuola Media Statale Donato Forlani in Conversano, Italy on Tuesday, October 28 at 09:37 UTC. Students have been introduced to amateur radio and have covered the importance of space missions. Media coverage is expected to include newspapers, radio and television and will be broadcast live by streaming video on: http://www.telenorba.it/home/streaming_d.php

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with Santa Teresa del Bambin Gesï¿½ in Rome, Italy on Thursday, October 30 at 08:51 UTC. Santa Teresa del Bambin Gesï¿½ is a Catholic primary school established to meet the needs for Catholic education of the local population. It has been preparing the children for the ARISS contact with educational projects on related scientific topics.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with IES Trassierra in Cï¿½rdoba, Spain on Monday, November
3 at 08:58 UTC. Students have been learning about space and related ISS topics.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with St. Thomas Primary School in Brisbane, Queensland, Australia on Tuesday, November 4 at 10:10 UTC. The school has its own radio club and has been using packet radio prior to the contact. Topics of space, science and technology have been taught and students, ages 4-12, have participated in related activities. These activities have

included building models of space stations, using a telescope to explore the night sky, building crystal radios, producing a video and creating an ARISS Web site for the school.

2. Training Session Contact Scheduled

A simulated Amateur Radio on the International Space Station (ARISS) contact has been scheduled for Monday, October 27 at approximately 17:00 UTC between ESA astronaut, Frank De Winne, ON1DWN, and youth attending the Technopolis in Mechelen, Belgium. This training session is a terrestrial-based amateur radio contact using ARISS-equivalent equipment.

3. Oregon Students Question Garriott on Space

On Monday, October 20, Pinehurst School students in Ashland, Oregon participated in an Amateur Radio on the International Space Station (ARISS) contact via the telebridge stations WH6PN in Hawaii, and W6SRJ in California. Seventeen students had 24 questions answered by Richard Garriott, W5KWQ, as approximately 30 students, teachers and parents gathered for the contact. Audio was available via IRLP (Internet Radio Linking Project) Reflector 9010. The EchoLink AMSAT (101 377) server received six connections. The educational event received newspaper and television coverage. The Daily Tidings posted an article:
http://www.dailytidings.com/2008/1020/stories/1020_astronaut.php

The Channel 12 News coverage may be viewed here:
http://kdrv.com/page/56321

The Pinehurst students also built a turnstile antenna for satellite contacts which they used to download some of Garriottï¿½s SSTV images!

4. National Planetarium, Malaysia - Contact Successful

The National Planetarium in Kuala Lumpur, Malaysia experienced a successful Amateur Radio on the International Space Station (ARISS) contact with spaceflight participant Richard Garriott, W5KWQ, on Tuesday, October 21. The contact was requested for ï¿½The National Space Challenge, Prime Ministerï¿½s Trophy 2008,ï¿½ which was held October 21-25,
2008. Students had twenty questions prepared. Richard answered the twenty and a few extra.

5. Armada Area School Students Speak with Space Traveler

Youth attending Armada Area Schools in Armada, Michigan took part in an Amateur Radio on the International Space Station (ARISS) contact on Friday, October 24. Approximately six hundred students, parents, teachers and members from the community gathered for the event as twelve children asked 20 questions of Mike Fincke, KE5AIT. Special guests in attendance were Armada Area Schools Superintendent Dr. Arnold Kummerow, Armada Area Schools Assistant Superintendent of Finance and Operations Michael Musary, district principals and

school board members. A local newspaper and the local television channel 6 reported the news. There were 24 known connections on the 2 EchoLink servers and there were also uncounted listeners on 5 link nodes and 4 repeaters.

6. Update on Austin High School ï¿½ ARISS Contact

The Liberal Arts and Science Academy (LASA) High School in Austin, Texas had a direct Amateur Radio on the International Space Station (ARISS) contact on Sunday, October 19 with Richard Garriott, W5KWQ. My Fox Austin posted a video of the contact on its Web site: http://www.myfoxaustin.com/myfox/pages/Home/Detail?contentIdv78113&version=2&locale=EN-US&layoutCode=VSTY&pageId1.1.1

News 8 Austin also covered the news: http://www.news8austin.com/content/top_stories/default.asp?ArID"2425

7. Article on CLC Contact

Four Challenger Learning Centers (CLC) experienced a joint Amateur Radio on the International Space Station (ARISS) contact on October 16. The Howard B. Owens Science Centerï¿½s Challenger Center in Lanham, Maryland was one of those which participated. The local paper reported on the event: http://www.gazette.net/stories/10232008/largnew170337_32474.shtml

8. Garriott SSTV, Voice Contacts

Richard Garriott, W5KWQ, transmitted Slow Scan Television (SSTV) images during his flight. Amateur radio operators from around the world receiving these pictures have uploaded them to an Amateur Radio on the International Space Station (ARISS) SSTV Web site. Over 2200 images have been received from SpaceCam, MMSSTV and the VC-H1! See: http://ariss-sstv.ssl.berkeley.edu/SSTV/

Garriott also made hundreds of general voice contacts with the amateur radio community during his flight. A recording of Richard talking to his father, Owen, W5LFL, has been posted to the richardinspace Web site: http://www.richardinspace.com/index.cfm?fuseaction=Multimedia_Gallery.welcome&typeid0A2E79-19B9-BA51-EE1A0CCF37084B95&albumid0AA196-19B9-BA51-EEC1C439A223F0C3&media=1

Pictures taken of the Budbrooke School contact have also been uploaded to the richardinspace Web site. See October 20 entry: http://www.richardinspace.com/

More information has been posted to the ARISS SSTV blog: http://www.ariss-sstv.blogspot.com/

9. ARISS International Team Meeting Held

An Amateur Radio on the International Space Station (ARISS) Team teleconference was held on Tuesday, October 21. Discussions included Richard Garriottï¿½s mission and the newly installed ISS Ham radio

system.
Minutes have been posted. See:
http://www.rac.ca/ariss/arisstel2008-10-21.htm

10. Outcomes from Garriottï¿½s ARISS Participation

The Amateur Radio on the International Space Station (ARISS) team has
received feedback from Richard Garriottï¿½s amateur radio activities
while
onboard the ISS. A sample of these follow:

[ANS thanks Carol, KB3LKI, for the above information]

/EX

SB SAT @ AMSAT $ANS-307.04
ARISS contact video posted

AMSAT News Service Bulletin 307.04
From AMSAT HQ SILVER SPRING, MD.
November 02, 2008

To All RADIO AMATEURS
BID: $ANS-307.04

UK ARISS School Contact Video Posted On-Line

This week Howard, G6LVB thanked the British Amateur TV club for their
coverage of the ARISS School Contact, "I'm sure you'll agree that BATC,
the British Amateur TV club have done a great job with a video of our
recent ARISS school contact over here in the UK."

The original telecast is at:
http://www.batc.tv/channel.php?ch=1, then select "Richard Garriott HD"
or "Richard Garriott SD".

Additional converted video formats can be found at:
http://www.g6lvb.com/images/RichardGarriotHD.mp4 (59.4Mb) for iPhone,
Quicktime and VLC.

http://www.g6lvb.com/images/RichardGarriotHD.wmv (56.6Mb) for Windows
Media Player and VLC.

[ANS thanks Howard, G6LVB for the above information]

/EX

SB SAT @ AMSAT $ANS-307.05
AO-51 Mode requests due

AMSAT News Service Bulletin 307.05
From AMSAT HQ SILVER SPRING, MD.
November 02, 2008

To All RADIO AMATEURS
BID: $ANS-307.05

Requests for AO-51 Operating Modes Due Soon

AMSAT-NA VP Operations Drew, KO4MA said, "If you have any requests for a particular mode on AO-51 in November, please e-mail them to ao51-modes@amsat.org as soon as you can."

Drew reminded the AO-51 community, "Please be aware that many emails that are sent to that address will be held for moderator review (me!) and as long as it's related to AO-51 it will be approved and posted to the list."

Until the graphics tools on the amsat web page are updated the best source of AO-51 operating mode information continues to be at: http://www.amsat.org/amsat-new/echo/CTNews.php

[ANS thanks Drew, KO4MA for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,

This week's ANS Editor,
Dee Interdonato, NB2F

198. Financial crisis came in to farm industry. Viagra sell 300 percents

Newsgroup: rec.radio.amateur.space
Date: 2008-11-05 06:12:00 UTC
From: bluebonysh@gmail.com
Message-ID: <979fddf4-7374-454a-9fd0-2f20b6762c76@d36g2000prf.googlegroups.com>
Source record: 678
Cross-posted to: rec.drugs.cannabis,rec.equestrian,rec.folk-dancing,rec.radio.amateur.space,rec.radio.shortwave

http://farmos.freetzi.com/ Financial crisis came in to farm industry.
Viagra sell 300 percents

199. WSR-311 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-11-06 02:26:53 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001501c93fb7$16076c00$42164400$@net>
Source record: 679
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-311.S1
WSR 311 Part 1 11/06/2008

AMSAT NEWS SERVICE BULLETIN 311.S1 FROM AMSAT HQ
SILVER SPRING, MD, November 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-311.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP

TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11062008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB

Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-311.S2
WSR 311 Part 2 11/06/2008

AMSAT NEWS SERVICE BULLETIN 311.S2 FROM AMSAT HQ
SILVER SPRING, MD, November 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-311.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM

145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[110602008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-311.S3
WSR 311 Part 3 11/06/2008

AMSAT NEWS SERVICE BULLETIN 311.S3 FROM AMSAT HQ
SILVER SPRING, MD, November 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-311.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]

=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-311.S4
WSR 311 Part 4 11/06/2008

AMSAT NEWS SERVICE BULLETIN 311.S4 FROM AMSAT HQ
SILVER SPRING, MD, November 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-311.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]

=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-311.S5
WSR 311 Part 5 11/06/2008

AMSAT NEWS SERVICE BULLETIN 311.S5 FROM AMSAT HQ
SILVER SPRING, MD, November 06, 2008
TO ALL RADIO AMATEURS
BID: $ANS-311.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

200. software for tracking satellites

Newsgroup: rec.radio.amateur.space
Date: 2008-11-07 06:49:46 UTC
From: brad2000@gmail.com
Message-ID: <0dad2cfa-a669-4b65-bd6d-497705025a53@r36g2000prf.googlegroups.com>
Source record: 680

I'm taking a class in Java programming and I need to do a project.
Since I'm interested in satellite radio, I thought I would do
something here. I know about the satellite tracking software on AMSAT.
But, was thinking if I could do something from a clean sheet, what
would you like to see.

I'm hoping to put this into a Java app, that I will create.

Obviously, I would release it as public domain software. But, I'm
interested in getting some feedback on features that you would find
useful.

Thanks.

-brad w.
KG6MDU

201. Re: software for tracking satellites

Newsgroup: rec.radio.amateur.space
Date: 2008-11-07 10:57:08 UTC
From: Greg <ash_5@gravitywell.org>
Message-ID: <8aVQk.3900$U5.25073@newsb.telia.net>
Source record: 681

Don't follow SatScape's route, the flashy 3D interface is just slow and buggy and
it's simply annoying, 2D is just fine...
I do however like satscapes 'horizon view' and it would be nice to be able to step
time forward/backward with +/- keys so it'll be easy to see how high above the
horizon the sat will be...
Please use plain text keplar save-files so one can edit them manually.
One thing I would like to see, using 'Full Satellite Catalog' from Space-Track.org
I'd _really_ love a feature of de-selecting trash like debree and rocket booster stages
and should be fairly simple to do I think...
Debree is labeled DEB, example "FENGYUN 1C DEB"
and rocket stages example "DELTA 1 R/B".
I wish to track sats. - not garbage...

//Greg. JO89sn

<brad2000@gmail.com> wrote in message
news:0dad2cfa-a669-4b65-bd6d-497705025a53@r36g2000prf.googlegroups.com...
> I'm taking a class in Java programming and I need to do a project.
> Since I'm interested in satellite radio, I thought I would do
> something here. I know about the satellite tracking software on AMSAT.
> But, was thinking if I could do something from a clean sheet, what
> would you like to see.
>
> I'm hoping to put this into a Java app, that I will create.
>
> Obviously, I would release it as public domain software. But, I'm
> interested in getting some feedback on features that you would find
> useful.
>
> Thanks.
>
> -brad w.
> KG6MDU

202. ANS-314 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-11-09 02:28:32 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <002501c94212$d67fbcf0$837f36d0$@net>
Source record: 682
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-314

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT President's Message
* Second European CubeSat Workshop
* Satellite Shorts From All Over
* ARISS Status Report for the Week of November 3, 2008

SB SAT @ AMSAT $ANS-314.01
AMSAT President's Message

AMSAT News Service Bulletin 314.01
>From AMSAT HQ SILVER SPRING, MD.
November 9, 2008
To All RADIO AMATEURS
BID: $ANS-314.01

I just arrived home on Monday night, Nov 3rd from my trip to the Southeast to attend the the AMSAT Board of Directors Meeting and the 26th Space Symposium along with some personal travel.

As you probably know by now, AMSAT has undergone a change in leadership as a result of Rick Hambly's decision not to serve another one-year term as President. At the meeting in Atlanta, the Board voted to appoint me as President. I am honored that the Board has placed their trust in my leadership and I look forward to working with the Board, the Senior Team, and our membership as we move forward into 2009.

First, many thanks to Robin Cutshaw, AA4RC and his team of volunteers for putting together and hosting an excellent AMSAT Symposium in Atlanta. Attendance was lower this year than in past years, probably due to the impacts of the slowing economy, relatively high transportation costs, and lack of news concerning Eagle.

Those that did attend the Symposium, however, benefited from an excellent weekend of presentations, discussions, interaction with fellow AMSAT members, and an opportunity to meet with the AMSAT leadership. The efforts of Robin's team, coupled with the contributions of Gould Smith, WA4SXM and Martha Saragovitz, resulted in a Symposium that ran very smoothly, with attendees enjoying the presentations, a Friday night President's Club social that was open to all Symposium attendees, the Saturday night banquet, and the Field Ops Breakfast on Sunday Morning.

Dan Schultz, N8FGV was a masterful banquet speaker who through excellent slides and dry wit explained the upcoming Hubble Repair Mission.

Dan also was our editor for the "Proceedings of of the 26th Space Symposium" which is an excellent compilation of papers, most of which were presented at the Symposium. (I encourage you to order a copy of the Proceedings if you weren't able to attend.)

In addition, for the first time that I can recall, there were TWO major prizes given away at the Dinner (Icom IC-910H and a Kenwood TS-2000), both of which were won by women who attended the banquet. Judy Perkins, KE7ERI of Lilburn, GA won the IC-910 and Flo Bower of Pinson, AL won the TS-2000 (she is working on earning her ham license). Many thanks to both Icom and Kenwood for their support of AMSAT.

The Symposium closed on Sunday following an excellent two hour "Introduction to Digital Signal Processing" workshop conducted by Phil Harman,

VK6APH that was well attended. Overall, AMSAT enjoyed an excellent weekend in Atlanta.

During the Board meeting on Thursday, Oct 23rd and the Annual Meeting on Saturday morning, Oct 25, we took time to thank Rick Hambly, W2GPS for his four years of faithful and extensive service to AMSAT as President. Rick tackled many difficult issues and sought to move AMSAT forward in a number of areas. These included dealing with changes in the regulatory environment (Orbital Debris), establishing a relationship with University of Maryland-Eastern Shore that resulted in relocation of the AMSAT Integration Lab to Pocomoke, MD, working on the difficult issue of ITAR (International Traffic of Arms Regulations),

revamping the AMSAT senior leadership team organizational structure, initial discussions with Intelsat on a possible 'rideshare' opportunity,

and 'filling in' as our webmaster when we lost the volunteer who handled

that function. Much of what Rick did was 'behind the scenes' activities

that took many hours, required dedicated followup, and received little fanfare. Many thanks to Rick for his significant efforts to make AMSAT better. During the past four years, no one dedicated such a significant portion of their life to AMSAT as Rick.

At the Annual Meeting on Oct 25, I gave a presentation that briefly reviewed where things stood within AMSAT, discussed some of

organizational issues that effect our ability to get projects completed, and mentioned some of the 'outside factors' that have impacted AMSAT. I also outlined some goals for 2009. You can download the presentation (in PDF format) off the AMSAT website. There is a link on the main page. While the 'bullet points' provide key comments, the presentation doesn't have the 'talking points' that I made during each slide, so please be aware of this limitation when reviewing the material. We made the Annual Meeting available via EchoLink, and we did have members listening 'live' and submitting questions during the meeting. Thank you to those individuals who participated in the Annual Meeting.

In upcoming 'Apogee View' columns of the AMSAT Journal, I will discuss some of the challenges facing AMSAT and what is happening in a number of areas. Some of these issues were discussed at the Annual Meeting.

Please don't forget that we need volunteers in a number of technical and non-technical areas. The July/August issue of the AMSAT JOURNAL had a brief 'We Want YOU' ad that highlighted some of the areas where AMSAT needs assistance. Please review that list and if you're interested in helping AMSAT, contact Gould Smith, WA4SXM as noted in the ad.

Finally, please don't hesitate to contact me directly if you have suggestions, comments, or concerns that you would like to share. I will make every effort to respond to e-mails that I receive, but please keep in mind that I travel extensively which may limit my ability to respond quickly. Please know that I read every e-mail that I receive from AMSAT members and that I appreciate every person's willingness and time spent to share their thoughts and suggestions.

73,
Barry Baines, WD4ASW
AMSAT President

[ANS thanks Barry, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-314.02
Second European CubeSat Workshop

AMSAT News Service Bulletin 314.02
>From AMSAT HQ SILVER SPRING, MD.
November 9, 2008
To All RADIO AMATEURS
BID: $ANS-314.02

Following on from the successful "Vega Maiden Flight CubeSat Workshop" held at ESA/ESTEC in January 2008, which was the first CubeSat workshop to be held at European-level, the ESA Education Office is pleased to announce the Second European CubeSat Workshop one year later as planned.

This Second European CubeSat Workshop will take place in ESA/
ESTEC, Noordwijk, The Netherlands on 20-22 January 2009.

Since the first workshop, the ESA Education Office in the
Directorate of Legal Affairs and External Relations in con-
junction with the Directorate of Launchers has selected nine
CubeSats (plus two backups) from European universities for
launch on the maiden flight of the Vega launcher, now sched-
uled for November 2009.

The nine CubeSats will be deployed from three different deployment
systems mounted on the support structure of the main payload,
LARES (LAser RElativity Satellite), into an orbit of 350 km by
1450 km at an inclination of 71 degrees.

The launch opportunity is offered by ESA to the selected CubeSats
free of charge, and recognises the growing importance of the CubeSat
as a powerful hands-on space education tool. It is intended as a
first step to boost student hands-on development of CubeSats in
Europe, thus providing a suitable and qualified space workforce
for the future in complement with other education project activities.

The ESA Education Office solicits abstracts to be submitted for oral
or poster presentation from both European and non-European partici-
pants. The amateur radio based CubeSat Ground Segment and Operations
(GENSO network) along with new ground station technologies and oper-
ational methods/techniques/software are planned for discussion.

[ANS thanks ESA and SpaceDaily.com for the above information]

/EX

SB SAT @ AMSAT $ANS-314.03
Satellite Shorts From All Over

AMSAT News Service Bulletin 314.03
>From AMSAT HQ SILVER SPRING, MD.
November 9, 2008
To All RADIO AMATEURS
BID: $ANS-314.03

+ Congratulations to Joe, K3SZH for reaching 7000 contacts as
recorded in the informal AO-7 log. Joe's presence and patience
has helped countless hams in learning the personality of this
unique satellite. See http://www.planetemily.com/ao7/ao7log.php
to review the AO-7 log pages.

+ Kudos, a hearty handshake, and a pat on the back are in order
to Robin, AA4RC who got on the air this weekend to demonstrate
amateur radio and amateur satellites to 10,000 Scouts camped out
at the Talladega Speedway. Robin also lead the team hosting
the 2008 AMSAT Space Symposium in Atlanta.

+ Fernando, EC1AME has put 3 videos of Mondayï¿½s school contact in
Spain at: http://www.ea1uro.com/isstation.html.

+ The 35th Eastern VHF/UHF Conference is scheduled for April 17-19, 2009 in Enfield, CT. Additional information and call for papers will be available soon.

+ Mineo, JE9PEL reports that the most recent photos received from the Cute-1.7+APDII camera (CO-65) can be viewed on-line at: http://www.ne.jp/asahi/hamradio/je9pel/cut17ap4.htm http://lss.mes.titech.ac.jp/ssp/cute1.7/blog/1_25_rev2%20_Caption.jpg

+ UniverseToday.com announces Space Lifestyle Magazine. Its a free, digital magazine, with a full color layout just like a print magazine, but its all online. SLM has feature articles about all aspects of space - NewSpace, NASA, military, science and astronomy - but mostly it's about the people that make the space sector tick. See: http://www.newforks.net/spacelifestyle.html. The subscription is free but they do ask for e-mail, home address, phone number in the registration process. (source UniverseToday.com)

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-314.04
ARISS Status Report for the Week of November 3, 2008

AMSAT News Service Bulletin 314.04
>From AMSAT HQ SILVER SPRING, MD.
November 9, 2008
To All RADIO AMATEURS
BID: $ANS-314.04

1. School Contacts

An ARISS contact was held with St. Thomas' Primary School in Brisbane, Queensland, Australia on Tuesday, November 4. The school has its own radio club and has been using packet radio prior to the contact. Topics of space, science and technology have been taught and students, ages 4-12, have participated in related activities such as building models of space stations, using a telescope to explore the night sky, building crystal radios, producing a video and creating an ARISS Web site for the school.

An ARISS contact was held with Dibrugarh University in Assam, India on Friday, November 7 via telebridge station W6SRJ in California. The university considers this event a great achievement with planned media coverage.

Anderson's Creek Primary School in Warrandyte, Victoria, Australia has been scheduled for an ARISS contact on Monday, November 10. Telebridge station VK5ZAI will assist with the contact. Students have researched the International Space Station and its experiments and determined the long term impact of these studies. They have studied the history of space exploration and the reasons why humans seek to broaden their horizons. The school has hosted evening sessions to introduce stu-

dents to astronomy.

The Newcomers Club in Saitama, Japan has been scheduled for an ARISS contact on Saturday, November 15 at 10:22 UTC. Community involvement and media coverage is expected.

2. Italian Students Question Astronaut via Radio

On Tuesday, October 28, students attending Scuola Media Statale Donato Forlani in Conversano, Italy participated in an ARISS contact with Mike Fincke, KE5AIT. To prepare for the event, the students made satellite contacts and received SSTV pictures, sent from the ISS by Richard Garriott W5KWQ. On the day of the contact, twelve students were able to pose one question each to Fincke as an audience of more than 500 students, parents, teachers and visitors watched. Fincke spoke to the students in Italian at the beginning and end of the contact. Two television stations (CANALE 7, TeleNorba) and three newspapers (L'Informatore, Il Levante, Il Fax) covered the event.

3. School Contact in Rome, Successful

Students attending Santa Teresa del Bambin Gesï¿½ in Rome, Italy experienced an ARISS contact on Thursday, October 30. Mike Fincke, KE5AIT, answered twelve questions. More than 150 students, parents, teachers and guests were present. Also present were ESA representative Mr. Dieter Isakeit, Head of the ESA/ESRIN Corporate Communication Office (LEX-COR) and Mr. Daniele Giannini, President 18ï¿½ District of City Hall
Rome. Mr. Isakeit translated the astronaut's answers, provided information and offered souvenirs. Four television stations (Regional RAI 3, SAT2000, Telelazio, Rete Blu) and RADIO RAI 1 covered the event. The audio was fed into the EchoLink AMSAT and JK1ZRW servers and received 6 connections from stations in the U.S., U.K. and Belgium. It was also fed into D-Star net and was repeated to 40 nodes in Europe, 70 nodes in USA and 20 in the rest of the world.

4. Budbrooke School Contact Update

Students attending Budbrooke Primary School in Warwick, England spoke with Richard Garriott, W5KWQ, during an ARISS contact on Friday, October 17. The British Amateur Television Club posted video of the event. Go to: http://www.batc.tv/channel.php?ch=1 and select "Richard Garriott HD" or "Richard Garriott SD."

5. ARISS Simulated Contacts Scheduled

Chris Hadfield, KC5RNJ/VA3OOG, and Cady Coleman, KC5ZTH, have been scheduled for ARISS simulated contacts on Thursday, November 6 at approximately 14:30 UTC. The astronauts will speak to two groups of students at a Canadian school for these events. These training sessions are terrestrial-based amateur radio contacts using ARISS-equivalent equipment. Hadfield and Coleman are currently assigned as back-up Expedition 19 crew members.

6. Training Sessions Successful

ESA astronaut Frank De Winne, ON1DWN, participated in a successful simulated ARISS contact with students at Technopolis in Mechelen, Belgium on Monday, October 27. He answered twenty-two questions posed to him by the students.

ESA astronaut Andre Kuipers took part in an ARISS review session on Friday, October 31. He is currently back-up for Frank De Winne.

7. Amateur Radio Newsline Reports on Garriott's Mission

On Friday, October 24, the Amateur Radio Newsline Report 1628 posted a story on Richard Garriott's participation in ARISS activities during his ISS mission. The article, "Ham Radio in Space: Richard Garriott, W5KWQ, Mission a Success for Ham Radio," covered Garriott's involvement in the Scout Jamboree on the Air (JOTA), SSTV, and his contact with Owen Garriott, W5LFL.

8. NASA HQ Cites Stories on Garriott

NASA Headquarters News Service picked up on reports of Richard Garr-
iott's mission, citing articles from CTV (Canada) and the Bennington Banner (Vermont). Both stories are about amateur radio operators who made radio contacts with Richard Garriott, W5KWQ, while onboard the ISS. To view the articles, go to:

http://www.ctv.ca/servlet/ArticleNews/story/CTVNews/20081025/space_radio_
081
025/20081026?hubÊnada
http://www.benningtonbanner.com/ci_10813257

9. AMSAT Symposium held

The Radio Amateur Satellite Corporation (AMSAT) held its Annual Meeting and Space Symposium on October 24-26 in Atlanta, Georgia. ARISS
(Amateur
Radio on the International Space Station) Chairman Frank Bauer, KA3HDO, attended and gave a talk on the ARISS program. ARISS Hardware Manager Lou McFadin, W5DID, presented an update on SuitSat-2. The presentations have been posted to the AMSAT Web site.
See:
http://www.amsat.org/amsat/ariss/Presentations/AMSAT%20Symposiums/2008%20
Sym
posium/

10. ARRL ARISS Program Manager Interviewed

The ARRL (American Radio Relay League) ARISS (Amateur Radio on the
Inter-
national Space Station) Program Manager Rosalie White, K1STO, was inter-
viewed on QSO, a ham radio interview and talk show. White spoke about Richard Garriott's flight, the ARRL, ARISS and AMSAT (Radio Amateur
Satel-
lite Corporation). The interview took place on Friday, October 24 and

ran three times over the weekend on the Nashville station and again on a Miami station.

[ANS thanks Carol, KB3LKI for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

And with that remember, that no matter how much you push the envelope, it is still stationery.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

203. Radio Meteor Obs. Bull. October 2008

Newsgroup: rec.radio.amateur.space
Date: 2008-11-11 10:50:58 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <oqoih45rdvp1utb85oc2tbkogbu32bt2da@4ax.com>
Source record: 683
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 183 of October 2008 (77 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0810.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

204. WSR-318 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-11-15 16:23:53 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000801c9473e$5fbd0f60$1f372e20$@net>
Source record: 684
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-318.S1
WSR 318 Part 1 11/13/2008

AMSAT NEWS SERVICE BULLETIN 318.S1 FROM AMSAT HQ
SILVER SPRING, MD, November 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-318.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005
```

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear

U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11132008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer
on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on
and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10
minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-318.S2
WSR 318 Part 2 11/13/2008

AMSAT NEWS SERVICE BULLETIN 318.S2 FROM AMSAT HQ
SILVER SPRING, MD, November 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-318.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM

Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11132008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-318.S3
WSR 318 Part 3 11/13/2008

AMSAT NEWS SERVICE BULLETIN 318.S3 FROM AMSAT HQ
SILVER SPRING, MD, November 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-318.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)

Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial
land and weather imaging payloads offers FM and FSK Amateur Radio
communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey
Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
call-
sign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]

=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-318.S4
WSR 318 Part 4 11/13/2008

AMSAT NEWS SERVICE BULLETIN 318.S4 FROM AMSAT HQ
SILVER SPRING, MD, November 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-318.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]

=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
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/EX

SB SAT @ AMSAT W8ISS ANS-318.S5
WSR 318 Part 5 11/13/2008

AMSAT NEWS SERVICE BULLETIN 318.S5 FROM AMSAT HQ
SILVER SPRING, MD, November 13, 2008
TO ALL RADIO AMATEURS
BID: $ANS-318.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

205. ANS-321 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-11-16 14:12:58 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c947f5$5c76d0e0$156472a0$@net>
Source record: 685
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-321

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The
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designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

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ans-editor@amsat.org

In this edition:
* IARU Region 1 Conference Satellite Topics
* AMSAT Awards
* ESA's Vega Launching To An Unusual Orbit
* VHF/UHF/microwave pioneer Reg Galle, VK5QR, SK
* ARISS Status - 10 November 2008

SB SAT @ AMSAT $ANS-321.01
IARU Region 1 Conference Satellite Topics

AMSAT News Service Bulletin 321.01
From AMSAT HQ SILVER SPRING, MD.
November 16, 2008
To All RADIO AMATEURS
BID: $ANS-321.01

The IARU Region 1 Conference in Cavtat starts this weekend, see
http://www.southgatearc.org/news/november2008/iaru_r1_cavtat.htm

There are a number of Satellite related papers being discussed in C5 VHF/UHF/uW:
144 MHz increased satellite service
3400 MHz amateur satellite allocation
Microwave spectrum requirements
A new vision for 23 cm
Amateur satellites handbook chapter
Microwave spectrum requirements
VHF spectrum requirements

An REF response to the C5 VHF/UHF/uW papers can be seen at
http://thf.ref-union.org/c5_iaru_r1/08cavtat/08cavtat_c5_etat_commentaire
s.p
df

[ANS Trevor, M5AKA, for the above information]
/EX

SB SAT @ AMSAT $ANS-321.02
AMSAT Awards

AMSAT News Service Bulletin 321.02
From AMSAT HQ SILVER SPRING, MD.
November 16, 2008
To All RADIO AMATEURS
BID: $ANS-321.02

We would like to welcome the following to the satellite community. They
have made their first satellite contact and are now members of the AMSAT
Satellite Communicators Club.

Boris Lanca, 9A2GA
Douglas Anoman, KC9MLN
Steve Rish, K8SAR

The following has earned the AMSAT Satellite Communications Achievement
Award.

Jose Manuel Escribano Hinojosa #475

Jose also earned the AMSAT South Africa Satellite Communications
Achievement Award #US127.

To see all the awards visit http://www.amsat.org or
http://www.amsatnet.com

Bruce Paige, KK5DO
AMSAT Director Contests and Awards

[ANS thanks Bruce, KK5DO, for the above information]

/EX

SB SAT @ AMSAT $ANS-321.03
ESA's Vega Launching To An Unusual Orbit

AMSAT News Service Bulletin 321.03
From AMSAT HQ SILVER SPRING, MD.
November 16, 2008
To All RADIO AMATEURS
BID: $ANS-321.03

Following the selection of 9 cubesats to be launched on the maiden
flight
of
the Vega launcher, ESA have now announced that the cubesats will be

deployed
into a very interesting orbit measuring 350km x 1450km with an
inclination
of
71 degrees.

>From the ESA website

"The nine CubeSats will be deployed from three different deployment
systems
mounted on the support structure of the main payload, LARES (LAser
RElativity
Satellite), into an orbit of 350 km by 1450 km at an inclination of 71
degrees. The launch opportunity is offered by ESA to the selected
CubeSats
free of charge"

Further details are at:
http://www.esa.int/esaED/SEMAYTRTKMF_index_0.html

[ANS thanks David, G0MRF, for the above information]
/EX

SB SAT @ AMSAT $ANS-321.04
VHF/UHF/microwave pioneer Reg Galle, VK5QR, SK

AMSAT News Service Bulletin 321.04
From AMSAT HQ SILVER SPRING, MD.
November 16, 2008
To All RADIO AMATEURS
BID: $ANS-321.04

All those interested in long distance VHF/UHF/microwave propagation will
regret the death of Reg Galle VK5QR on 12 September 2008.

Reg was a leading pioneer of the use of these amateur radio bands.

On 31 December 1951, Reg made a 144 MHz Australian record distance of
2122
Km
with a contact with the late Rolo Everingham VK6BO in Perth (just short
of
the
then world record of 2253 Km). He then continued to seek
answers to questions regarding the propagation of the higher bands.

Reg became the Adelaide end of record breaking distances on 432, 1296,
2304 and 3456 MHz across the Great Australian Bight with Wally Green
VK6WG in Albany.

Reg and Wally, as true amateurs with no professional engineering
backgrounds, built equipment for these UHF/microwave bands and were
nearly 2 000 Km apart so that there were no "local" tests with each
other. There were no precedents in Australia, and few in the world, for

trying to make contacts over this distance.

In 1977, they bridged the 1296 MHz path on 25 January for a world record distance of 1885 Km.

The following year, on 17 February 1978, Reg and Wally made their first contact on the 2304 MHz band. Reg used SSB that was processed in a divide by 6 circuit and mixed to 28 MHz. The 28 MHz signal, with processed SSB, was then transverted to 384 MHz and then tripled and doubled to 2304 MHz. This multiplication by 6 restored the original SSB! To give you a feel of the type of gear in use 30 years ago, Wally Green VK6WG used a modified World War II SCR522 which, from a 7 MHz crystal, produced 128 MHz. This was then multiplied to 384 MHz with a BAY96 varactor tripler to 1152 MHz in a modified Microwave Modules MMV1296 and then doubled in by a 2C39 which drew 90mA at 600V.

In 1986, Reg and Wally completed their first 3456 MHz contact using CW. This distance of 1885 Km and that on 2304 MHz remain the Australian record distances.

Both Wally and Reg built equipment for the 5.7 GHz band and made tests on that band without success although Reg claimed that they could have had a contact had Wally not been in the midst of making apricot jam on that day!

Reg gradually lost interest in pushing the boundaries further and has been in poor health in recent years. His death followed several strokes. The most recent one returned him to hospital just over a week ago but he insisted that he wanted to go home despite living alone and with no close relatives in Adelaide. His niece watched over him and he was able to fulfil his wish of dying at home in his own bed! Reg was 96 years old!

Farewell to a tremendous pioneer on the higher bands!

[ANS thanks Wally, VK6KZ, for the above information]

/EX

SB SAT @ AMSAT $ANS-321.05
ARISS Status - 10 November 2008

AMSAT News Service Bulletin 321.05
From AMSAT HQ SILVER SPRING, MD.
November 16, 2008
To All RADIO AMATEURS
BID: $ANS-321.05

1. Spanish Students Speak to ISS via Radio

Students attending IES Trassierra in Cï¿½rdoba, Spain spoke with astronaut
Mike
Fincke, KE5AIT, via an Amateur Radio on the International Space Station

(ARISS)
contact on Monday, November 3. Twenty students asked one question each
of
the
astronaut. Approximately 150 students, teachers and guests attended the
event
including the Cordoba City mayor and the Head
Master of Education and Culture of
Cordoba. Media coverage included 4 local and regional television
stations, 2
local and regional radio stations and 3 newspapers. Photos, an audio
recording
and a video recording may be found at:
http://www.ariss-eu.org/2008_11_08.htm

An article (in Spanish) has been posted to El Dia de Cordoba:
http://www.eldiadecordoba.es/article/cordoba/270358/conocer/como/vive/ast
ron
auta
.html

2. Successful Australian Contact

In preparation for an Amateur Radio on the International Space Station
(ARISS)
contact, students attending St. Thomasï¿½ Primary School in Brisbane,
Queensland,
Australia helped build an antenna. They spoke with Richard Garriott,
W5KWQ,
during his ISS mission and received Slow Scan Television (SSTV) images
as
well.
They also viewed Mike Finckeï¿½s ISS video tour taken during Expedition
9. On
Tuesday, November 4, the students spoke with Fincke, KE5AIT, as
approximately
400 students looked on. Fincke answered all
twenty questions posed to him by the
20 students. The event received extensive local and national media
coverage
including 2 newspapers, an online magazine, 2 television stations and 5
radio
stations. The audio and a partial video of the event are available on
the
schoolï¿½s Web site:
http://www.members.optusnet.com.au/jandnclark/?reload

An interview is available on the ABC site:
http://www.abc.net.au/local/photos/2008/11/07/2412996.htm?site=brisbane

The City South News posted an article on the contact. See:
http://city-south-news.whereilive.com.au/news/story/special-space-link-fo

r-l
ocal
-students/

3. India University Contact Successful

An Amateur Radio on the International Space Station (ARISS) contact
between
Dibrugarh University in Assam, India and astronaut Mike Fincke, KE5AIT,
took
place on Friday, November 7 via telebridge station W6SRJ in California.
Ten
students were able to ask eleven questions of Fincke as an audience of
700
gathered for the event. Mike spoke briefly in the Indian language.
Media
coverage included newspapers and television. Contact audio was fed into
two
EchoLink servers and into the Internet Radio Linking Project (IRLP)
Discovery
Reflector 9010. There were 5 known connections from England, Japan and
South
Korea on the EchoLink servers with uncounted listeners on one repeater
and
two
link nodes.

4. Successful ARISS Simulated Contacts

On Thursday, November 6, Chris Hadfield, KC5RNJ/VA3OOG, and Cady
Coleman,
KC5ZTH, took part in Amateur Radio on the International Space Station
(ARISS)
simulated contacts. The astronauts spoke with two groups of students
from
Manordale Public School in Ottawa, Ontario,
Canada. These training sessions were
terrestrial-based amateur radio contacts using ARISS-equivalent
equipment.
Hadfield and Coleman are currently assigned as back-up Expedition 19
crew
members.

5. ARRL Articles on Garriott Mission

On Thursday, November 6, the American Radio Relay League (ARRL) ran an
article
on Richard Garriottï¿½s mission. ï¿½Richard Garriott, W5KWQ, Back on
Terra
Firma,ï¿½
may be found at:
http://www.arrl.org/news/stories/2008/11/06/10437/?nc=1

The ARRL Letter also ran the story. See:
http://www.arrl.org/arrlletter/08/1107/

6. Interview on SuitSat

ARISS (Amateur Radio on the International Space Station) member Steve Bible,
N7HPR, gave an interview on the concept and development of SuitSat-1. His
interview has been posted to the Design News, Engineering Concept Conduit
Web
page. See: http://www.engineeringconceptconduit.com/

7. Astronaut Makes General Contacts

Mike Fincke, KE5AIT, made several contacts with
the ham radio community over the
November 8 weekend. Using the Amateur Radio on the International Space Station
(ARISS) equipment, Fincke talked with stations in Australia, Thailand, South
America and North America.

8. ARISS SSTV Web Site Status

The Amateur Radio on the International Space Station (ARISS) Slow Scan
Television (SSTV) Web site set up for Richard Garriottï¿½s flight was a big
success. Over 2200 images from SpaceCam, MMSSTV and the VC-H1 were received
by
amateur radio operators worldwide and were uploaded to the site. The site
received nearly 4 million hits! See the SSTV images:
http://ariss-sstv.ssl.berkeley.edu/SSTV/ and the SSTV blog:
http://ariss-sstv.blogspot.com/

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

206. WSR-325 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-11-21 22:34:18 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <003401c94c29$3f7ee260$be7ca720$@net>
Source record: 686
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-325.S1
WSR 325 Part 1 11/20/2008

AMSAT NEWS SERVICE BULLETIN 325.S1 FROM AMSAT HQ
SILVER SPRING, MD, November 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-325.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz (inverting)
400mW
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is
active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP

TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11202008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz.
The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the
repeater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's CW
telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-325.S2
WSR 325 Part 2 11/20/2008

AMSAT NEWS SERVICE BULLETIN 325.S2 FROM AMSAT HQ
SILVER SPRING, MD, November 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-325.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan ?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25

Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11202008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM

1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web page:
http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]

=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web
page:
http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page:
http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:

Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web page:
http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Greg Chamitoff KD5PKZ

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS

RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is
NOT translated from Russian and posted.
[10232008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-325.S3
WSR 325 Part 3 11/20/2008

AMSAT NEWS SERVICE BULLETIN 325.S3 FROM AMSAT HQ
SILVER SPRING, MD, November 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-325.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====

MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial
land and weather imaging payloads offers FM and FSK Amateur Radio communica-
tion.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a
collaborative effort between the Malaysian government and Surrey Satellite
Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire, call-
sign KE6QMD, as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon (GB) Middle Beacon (MB) Engineering Beacon
(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063

Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site
at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]

=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087

Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet: Non-Operational
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW

Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12

Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-325.S4
WSR 325 Part 4 11/20/2008

AMSAT NEWS SERVICE BULLETIN 325.S4 FROM AMSAT HQ
SILVER SPRING, MD, November 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-325.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT
THIS
TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web
page:
http://ticket-to-mars.org
[01222007]

=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web
page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA webpage:
http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-325.S5
WSR 325 Part 5 11/20/2008

AMSAT NEWS SERVICE BULLETIN 325.S5 FROM AMSAT HQ
SILVER SPRING, MD, November 20, 2008
TO ALL RADIO AMATEURS
BID: $ANS-325.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX

207. ANS-328 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-11-23 15:39:54 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000601c94d81$b78582b0$26908810$@net>
Source record: 687
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-328

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* New publication start up announced
* Popular Magazine Acquired
* PCSAT Recovery Successful
* Nominations Due
* AO-16 Groundstation Predicts Last Days of Operation
* ARISS Status - 10 November 2008

SB SAT @ AMSAT $ANS-328.01
New publication start up announced

AMSAT News Service Bulletin 328.01
From AMSAT HQ SILVER SPRING, MD.
November 23, 2008
To All RADIO AMATEURS
BID: $ANS-328.01

After the great success of ham-mag (french ham "E-magazine"), we have decided to make it in ENGLISH !
But to make this challenge we need the help of a lot of O.M's
Everybody can send us informations, technical, homebrew, support, DX, expedition, sat infos, etc.
The claim is to share all informations about radio.
You can have a look on :
http://www.ham-mag.com

Best 73's
Vincent F5SLD

[ANS Thanks Vincent, F5SLD, for the above information]
/EX

SB SAT @ AMSAT $ANS-328.02
Popular Magazine Aquired

AMSAT News Service Bulletin 328.02
From AMSAT HQ SILVER SPRING, MD.
November 23, 2008
To All RADIO AMATEURS
BID: $ANS-328.02

CQ COMMUNICATIONS ACQUIRES WORLDRADIO MAGAZINE

(Hicksville, NY and Sacramento, CA, November 12, 2008) --
CQ Communications, Inc. has acquired WorldRadio magazine, CQ Publisher Dick Ross, K2MGA and WorldRadio Publisher Armond Noble, N6WR, announced jointly today. CQ, based in Hicksville, New York, currently publishes CQ Amateur Radio, CQ VHF and Popular Communications magazines.
WorldRadio, based in Sacramento, California, has been published monthly since July, 1971, with a primary focus on the human side of ham radio. CQ, a general-interest ham radio magazine best known for its support of DXing and contesting, has been in print since January, 1945.
Armond Noble, N6WR, Publisher of WorldRadio, said that at the age of 74 the time had come for him to retire. "I wanted to be sure that WorldRadio found a good home, and that our readers would continue to be served by an independent voice in amateur radio," Noble said.
CQ Publisher Dick Ross, K2MGA, said, "WorldRadio has filled an important niche in our hobby for nearly four decades. We welcome WorldRadio's readers to the CQ family, and we look forward to meeting their needs for many years to come."
Current plans call for WorldRadio to continue to be published online as part of the CQ family of magazines, with Editor Nancy Kott, WZ8C, continuing in that position. WorldRadio subscribers will also have their subscriptions transferred to CQ magazine. Readers will be notified of details as plans are finalized.

[ANS thanks Rich, W2VU, for the above information]

/EX

SB SAT @ AMSAT $ANS-328.03
PCSAT Recovery Successful

AMSAT News Service Bulletin 328.03
From AMSAT HQ SILVER SPRING, MD.
November 23, 2008
To All RADIO AMATEURS
BID: $ANS-328.03

PCSAT Recovery Successful, Full Sun Operations Begin December 9

Bob, WB4APR reports from the US Naval Academy Satellite Lab that PCSAT-1 should return to full operations on 9 Dec 08 when this sunlight-only veteran bird once again receives solar illumination for two weeks.

Bob says "This should give a few weeks for some good 2 meter packet contacts and the opportunity to run a Satellite Simulated Emergency Test (SSET)". If the ISS is also operational on 145.825, there is the possibility for some lucky 2-hop DX contacts via both birds. Combined PCSAT and ISS 1200 baud packet operation on 145.825 MHz will give 12 opportunities per day for contacts without any change in your radio.

Operating PCSAT-1 is just like any 1200 baud 2 meter packet repeater. Uplink and downlink are on 145.825 and the path is VIA ARISS. This path is identical to the ISS path so that you do not have to change anything between the two spacecraft. (Until PCSAT-1 is reloaded, however, its digipeating alias is its FCC call W3ADO-1.) You can hear it every day right now, but its packets die before completion because of poor power budget.

Refer to: http://home.comcast.net/~k9jkm/ARISS_Packet_How_To/ for additional information to configure your TNC for 1200 baud satellite operation.

Bob continues, "I just commanded PCSAT-1 this week and all functions are normal. All we need is the first full-sun orbit on the 9th of Dec to be able to do a full recovery, and then it should last for 2 weeks or more".

Amateur Radio operators can make two-way contacts, send beacons and bulletins and send your position so you will show up on the PCSAT web page at: http://pcsat.aprs.org.

Bob recommends everyone plan on testing their emergency E-mail capability during the time window of 12 to 15 December for everyone to try to send an E-mail via the PCSAT or ISS digipeater. Please see the Satellite Simulated Emergency Test information at: http://www.aprs.org/sset.html. You can use any packet system and no special software is required.

[ANS thanks Bob, WB4APR for the above information]

/EX

SB SAT @ AMSAT $ANS-328.04
Nominations Due

AMSAT News Service Bulletin 328.04
From AMSAT HQ SILVER SPRING, MD.
November 23, 2008
To All RADIO AMATEURS
BID: $ANS-328.04

The Dayton HamventionR now is accepting nominations for its 2009 Amateur of the Year, Special Achievement, and Technical Excellence awards. The deadline for nominations is Feb. 18, 2009. All amateur radio operators are eligible. The winners will be recognized at the 2009 HamventionR, which runs May 15-17.

The Amateur of the Year Award goes to an individual who has made a long-term, outstanding commitment to the advancement of Amateur Radio. The Technical Excellence Award is for the person who has made an outstanding technical advancement in the field of Amateur Radio. The Special Achievement Award honors someone who has made an outstanding contribution to the advancement of Amateur Radio, usually someone who has spearheaded a significant project.

The HamventionR Awards Committee makes the decision on all awards based in part upon the information it receives--and not on the number of nominations submitted.

Documentation that informs the Awards Committee of a candidate's accomplishments may include magazine articles, newsletters, newspaper clippings, and even videos (these materials become the property of HamventionR and will not be returned).

Additional details on these awards and a nomination form are available on the Dayton HamventionR Web site. Nominations also are accepted via US mail to Dayton HamventionR Awards, PO Box 964, Dayton, OH 45401.

[ANS thanks Henry Ruminski for the above information]

/EX

SB SAT @ AMSAT $ANS-328.05
AO-16 Groundstation Predicts Last Days of Operation

AMSAT News Service Bulletin 328.05
From AMSAT HQ SILVER SPRING, MD.
November 23, 2008
To All RADIO AMATEURS
BID: $ANS-328.05

AO-16 Groundstation Predicts Last Days of Operation

AO-16 Groundstation controller, Mark, N8MH reminds amateur satellite stations that the time for contacts via AO-16 may be drawing short!

AO-16 has been in continuous voice operations since commanded back ON and configured in voice mail on 15 Sept 2008 at 10:58 UTC. The control team's predictions regarding sustained activities seem have been right on the mark. Recording your observations about AO-16 at: http://oscar.dcarr.org has been, and will continue to be, very helpful to the AO-16 control team. Please keep this up, especially over the upcoming 4 weeks.

Many of you will recall that the "best guess current model" is that a hardware timer in AO-16 is firing when the craft is at a certain temperature, currently around 15 deg C or cooler. When the space craft temperature is over 15 deg C, the hardware timer behaves and continuous operations are sustained. The craft temperature is dependent upon solar illumination. It appears that around 85% illumination is the "magic number." If the orbit puts AO-16 with less than 85% illumination, the

watchdog timer restarts the satellite, and the transmitter shuts down.

Illumination projections (and subsequent temperature predictions)
suggest that we might be able to sustain operations until sometime
in the window of November 22 until December 4, 2008. So, if you want
to make some AO-16 contacts, you had better get them as soon as
possible!!!

Long term orbital projections suggest that if the satellite hardware
remains fundamentally unchanged (i.e., no deterioration of components
on-board), it will be nearly 10 years before AO-16 receives sufficient
illumination to warm up the spacecraft enough to again support sus-
tained operations! You can be sure that we'll continue to probe the
craft with commands, in hopes that we something will change in a good
way that will allow us to use the bird for operations of some sort.

It is possible that the transmitter on AO-16 will turn OFF sometime in
the next few days/weeks; this requires some commanding to get it running
again, which means a pass over the Eastern US coast is required for a
change in operational status. We expect that as the spacecraft cools
down, transmitter shutdowns will become more frequent.

Enjoy this grand old bird while you can!

Current operational mode for AO-16:

Mode FM Voice Repeater (Downlink is DSB)
Uplink : 145.9200 MHz FM
Downlink 437.0260 MHz SSB

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-328.06
ARISS Status - 17 November 2008

AMSAT News Service Bulletin 328.06
From AMSAT HQ SILVER SPRING, MD.
November 23, 2008
To All RADIO AMATEURS
BID: $ANS-328.06

Amateur Radio on the International Space Station (ARISS) Status Report
November 17, 2008

1. Upcoming School Contacts

Planning continues for Amateur Radio on the International Space Station
(ARISS) school contacts. New approvals are expected this week.

2. Australian School Contact Successful

On Monday, November 10, Anderson's Creek Primary School in Warrandyte,
Victoria, Australia experienced a very successful Amateur Radio on the

International Space Station (ARISS) contact via telebridge station VK5ZAI in Kingston, South Australia. Ten students asked two questions each of astronaut Mike Fincke, KE5AIT. An audience of over 230 witnessed the event including the mayor, sergeant, representative from Rotary, Bendigo Bank and the Warrandyte High School principal. There were also many representatives including the president from the local Wireless Institute. The majority of the teaching staff also joined in. The Herald Sun sent a photographer before and during the event and published an article in the paper and online. The Education Times, the Victorian Teacher newspaper, also conducted an interview and will publish a story in its next edition. The Victorian Space Science Education Centre published an account of the event in their emailed newsletter to teachers, and!
a student was also interviewed on ABC 774 Melbourne radio station. The audio, which was fed into the Internet Linking Project (IRLP) Discovery Reflector 9010, received 6 connections. EchoLink received 16 connections from Australia, New Zealand, Brazil, England and the U.S.

To view The Herald Sun article, see:
http://www.news.com.au/heraldsun/story/0,,24632605-2862,00.html

The Wireless Institute of Australia published a story covering the contact:
http://www.wia.org.au/newsevents/news/2008/20081110-1/index.php

The Victorian Space Science Education Centre also ran a short summary:
http://www.vssec.vic.edu.au/resources/download/capcom/capcom30-1108.pdf

3. International Education Week - ARISS Contact Successful

Students from Maryland, North Carolina and Ecuador participated in a joint Amateur Radio on the International Space Station (ARISS) contact on Friday, November 14 as part of International Education Week (IEW). The contact was facilitated by telebridge station WH6PN in Hawaii. The students asked 17 questions of Mike Fincke, KE5AIT. Enloe Magnet School had three television stations on site and had interviews with radio stations and the district PR personnel. NASA distributed a press release on this contact. See:
http://www.nasa.gov/centers/langley/news/releases/08-072.html

On Tuesday, November 18, the schools will tie in to a videoconference for another IEW session with an expert panel. Former astronaut Don Thomas will talk about space exploration and ARISS Chairman Frank Bauer will give an ARISS overview. Amateur radio operators from around the world will also participate, giving talks about amateur radio and their countries.

4. Japanese Club Talks to ISS Astronaut

Members of the Newcomers Club in Saitama, Japan participated in an Amateur Radio on the International Space Station (ARISS) contact on Saturday, November 15. Mike Fincke, KE5AIT, answered all twenty questions posed to him by the 16 students, giving some answers in Japanese. Approximately 100 parents and guests attended the event.

Media coverage included 3 newspapers, one television station and one radio station. To view the contact video, see: http://www.ariss.jp/Newcomers/video/Newcomers_contact.wmv

5. ARRL Publishes ARISS News

The American Radio Relay League (ARRL) printed three Amateur Radio on the International Space Station (ARISS) news items in its December issue of QST.

The "Happenings" column (page 54) had a story with a photo about the first few days of Richard Garriott's mission as the magazine went to press.

"This Just In -- In Brief" section (page 12) had a paragraph about Richard Garriott's mission.

A paragraph and photo were printed (page 100) about a revolving display that is circulating in the San Diego Public libraries. The display is about ham radio and includes the topics of satellites, ARISS, packet, moonbounce, and other ham radio modes.

6. NASA Birthday Celebration Includes ARISS Students

The Naples Daily News ran an article about a Florida school that was invited to participate in NASA's Digital Learning Network presentation of its 50th anniversary.
Pine Ridge Middle, a NASA Explorer School, was one of ten schools to join in the celebration. Pine Ridge students took part in an Amateur Radio on the International Space Station (ARISS) contact with Bill McArthur, KC5ACR, in February 2006. The story may be found at: http://www.naplesnews.com/news/2008/nov/13/local-students-have-blast-celebrating-nasas-50th-b/

7. NASA Cites Article on ARISS Students

NASA Headquarters News Service picked up on an article about four students attending Humber College in Toronto who are building two communications systems to make contact with the space station. Amateur Radio on the International Space Station (ARISS) Delegate Daniel Lamoureux was interviewed for the article. See: http://canadianpress.google.com/article/ALeqM5jiaytfIhmwAy6LAnx0ey42_unrlg

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

208. SHOP CLEANOUT-PRIDE 100 WATT linear CB/Ham amp-(4) vintage tube CB radios-(2) old tube PA system amps for guitar projects-tube radios- test equipment-rare items-$10-25 each

Newsgroup: rec.radio.amateur.space
Date: 2008-11-25 11:34:59 UTC
From: "Dwight D. Eisenhower" <rottedHonda@yahoo.com>
Message-ID: <739696ba-c362-40d9-91eb-fc3fb49880d3@l42g2000yqe.googlegroups.com>
Source record: 688

http://shop.ebay.com/merchant/66-catalina_W0QQ_nkwZQQ_armrsZ1QQ_fromZQQ_mdoZ

(7) RCA SOUND MAGAZINE LOADED LARGE CASSETTE TAPES-old- 1 Bid $9.98
4h 5m
EICO VINTAGE ANTIQUE TUBE TESTER-MODEL 625-PARTS/FIX-$$ 3 Bids
$20.55 15h 1m
GRATEFUL DEAD 1965-85 LONG STRANGE TRIP TOUR T-SHIRT-$$ 1 Bid $9.98
15h 1m
VINTAGE 1960's MUNTZ 4-TRACK CARTRIDGE CAR TAPE DECK-$$ 0 Bids $9.98
15h 1m
STROMBERG CARLSON TUBE RADIO-ANTIQUE VINTAGE-rare item- 0 Bids $9.98
6d 10h 1m
SBE II VINTAGE CB BASE STATION W/MIC-WOOD COVER OPTION- 0 Bids
$49.98 6d 15h 1m
PRIDE 100 WATT BI-LINEAR POWER AMP-CB/HAM RADIO-12 VOLT 0 Bids
$99.88 6d 15h 1m
LAYETTE COMSTAT-25 VINTAGE TUBE AMPED CB RADIO w/cord-$ 0 Bids $9.98
6d 15h 1m
1970-81 PONTIAC TRANS AM-FORMULA STEERING WHEEL OEM GM- 0 Bids
$24.99 6d 15h 1m
OLD PA TUBE AMP-35WATT-2CH-MONO-GUITAR TUBE AMP PROJECT 0 Bids
$24.99 6d 15h 1m
EICO 340 VINTAGE TUBE AMPED AUDIO/RF SIGNAL GENERATOR-$ 0 Bids $9.98
6d 15h 1m
VINTAGE MONO PA TUBE AMP-30 WATT-2CH-GUITAR AMP PROJECT 0 Bids
$24.99 6d 15h 1m
EMERSON BAKELITE TUBE RADIO-VINTAGE ANTIQUE COLLECTIBLE 0 Bids $9.98
6d 15h 1m
JC PENNEY VINTAGE 1970's CB/HAM/SHORTWAVE POWER MIC-$$$ 0 Bids $9.98
6d 15h 1m
CRYSTALAB ANTIQUE TUBE AMPED METRONOME-mod mp-100-pa-$$ 0 Bids
$24.99 6d 15h 1m
ANTIQUE COLLECTIBLE OLD FOLDING WOODEN IRONING BOARD-$$ 0 Bids $24.99
$75.00 2d 15h 1m
LAFAYETTE HE-20C VINTAGE TUBE CB W/ELECTROVOICE 630 MIC 0 Bids $9.98
6d 15h 1m
EICO 762W VINTAGE TUBE AMPED CB RADIO W/CORD-rare item- 0 Bids $9.98
6d 15h 1m
3 SWR/FS METERS-MATCHBOX-JOHNSON-PARADYNAMICS-MICRONTA- 0 Bids
$24.99 6d 15h 1m
LAFAYETTE HB-111 VINTAGE TUBE AMPED CB RADIO-rare item- 0 Bids $9.98
6d 15h 1m

209. WSR-332 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-11-29 17:25:27 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001401c95247$71b78ce0$5526a6a0$@net>
Source record: 689
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-332.S1
WSR 332 Part 1 11/27/2008

AMSAT NEWS SERVICE BULLETIN 332.S1 FROM AMSAT HQ
SILVER SPRING, MD, November 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-332.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
L-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11272008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK

Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/
ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: TESTING - VOICE

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[03202008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT

Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[11272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-332.S2
WSR 332 Part 2 11/27/2008

AMSAT NEWS SERVICE BULLETIN 332.S2 FROM AMSAT HQ
SILVER SPRING, MD, November 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-332.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
L-FM/u-FM
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol

2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[11272008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM

1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[09172007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46

[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[07312008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS

Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[11272008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-332.S3
WSR 332 Part 3 11/27/2008

AMSAT NEWS SERVICE BULLETIN 332.S3 FROM AMSAT HQ
SILVER SPRING, MD, November 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-332.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2

Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]

=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT

Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-332.S4
WSR 332 Part 4 11/27/2008

AMSAT NEWS SERVICE BULLETIN 332.S4 FROM AMSAT HQ
SILVER SPRING, MD, November 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-332.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-332.S5
WSR 332 Part 5 11/27/2008

AMSAT NEWS SERVICE BULLETIN 332.S5 FROM AMSAT HQ
SILVER SPRING, MD, November 27, 2008
TO ALL RADIO AMATEURS
BID: $ANS-332.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-
mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30
UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

210. ANS-335 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-11-30 07:26:08 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c95297$b4871220$1d953660$@net>
Source record: 690
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-335

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AO-51 Software Reload in Progress
* ARISS Commemorative Event 25th Anniversary of Ham Radio in Space
* SKN on OSCAR 2009
* GENSO Groundstation Development Opportunity For Students
* Call For Articles - Brief Author's Guide to the AMSAT Journal
* ARISS Status Report for the Week of November 24, 2008

SB SAT @ AMSAT $ANS-335.01
AO-51 Software Reload in Progress

AMSAT News Service Bulletin 335.01
>From AMSAT HQ SILVER SPRING, MD.
November 30, 2008
To All RADIO AMATEURS
BID: $ANS-335.01

AO-51 was reported as "not heard" starting Wednesday, November 26 by stations around the world. The satellite's ground stations determined that AO-51 required a software reload. AMSAT Vice President of Operations, Drew KO4MA reported, "It looks like we'll be reloading AO-51 for Thanksgiving. Gould WA4SXM started the process this evening, and I expected it'll be Saturday or later before it's back open for general use."

Gould, WA4SXM reported on Saturday, November 29, "AO-51 reload was mostly successful and the main V/U repeater became operational on Friday. The SQRX receiver task didn't reload and cause a the crash in the software. We are in the process of reloading the SW and hope to have it operational the first of the week. Thanks to Kevin, WA6FWF for all his work during the Thanksgiving holiday working on the soft-ware upload to AO51."

The latest status for AO-51 remains as not operational with a soft-
ware reload in progress. Drew, KO4MA said, "Meanwhile, the 9600
baud downlink (only) on 435.150 is running at very high power, so
it might be a good time to try your 9600 baud receive setups. Please
do not attempt any uplinks until the repeater is back on. Once the
satellite is recovered the Operations Team will test to deter-
mine the appropriate operating mode."

The full AO-51 schedule and Command Team News can be found on-line
at: http://www.amsat.org/amsat-new/echo/ControlTeam.php. The AMSAT
main web page will also provide a quick status update when the infor-
mation changes. Operating mode requests can be sent via e-mail to
ao51-modes@amsat.org .

[ANS thanks The AO-51 Command Team for the above information]

/EX

SB SAT @ AMSAT $ANS-335.02
ARISS Commemorative Event 25th Anniversary of Ham Radio in Space

AMSAT News Service Bulletin 335.02
>From AMSAT HQ SILVER SPRING, MD.
November 30, 2008
To All RADIO AMATEURS
BID: $ANS-335.02

AMSAT-NA V.P. for Human Spaceflight Programs and ARISS Inter-
national Chairman Frank Bauer, KA3HDO announced, "Twenty-five
years ago this week, Owen Garriott, W5LFL, made history by being
the first amateur radio operator to talk to hams from space.
Owen's historic flight on the STS-9 Space Shuttle Columbia mission
was launched on ovember 28 and landed on December 8, 1983. Owen's
ham radio adventure on STS-9 ushered in a host of outstanding out-
reach activities that continue today with the ARISS program."

Frank continued, "Many will recall that first set of contacts and
downlinks with Owen. Those first contacts allowed each of us to
share the excitement of space exploration through Owen's first-hand
eyewitness accounts. Owen's ham radio legacy enabled space travelers
that have flown on the Space Shuttle, the Space Station Mir and now
the International Space Station to share their journey of exploration."

"Owen's son Richard, W5KWQ just a month ago carried the torch further
to become the first 2nd generation amateur rdaio operator to talk to
hams from space. What other hobby, except amateur radio, could or
would open the communications lines of space travelers beyond that
of the space agencies or international heads of state?"

To celebrate our 25 years of amateur radio operations from space, the
ARISS team has planned a set of special event opportunities during
the month of December and part of January. A special certificate is
being developed for those who communicate with the ISS, either 2-way
direct (with the ISS crew,the digipeater, or cross band repeater),

or 1-way reception of SSTV or voice downlink. Several events will be described here with several "surprises" planned over the month-long celebration. The surprises will be announced once we are prepositioned to accomplish them.

Specifically, the following is being planned in the near-term:

+ December 1-5 - in addition to school contacts and APRS digi operations, we plan to configure the radio system for cross band repeater operations. This will utilize the standard U/V operations in low power mode.

+ December 7-12 we will run a test of 9600 baud packet operations on the simplex frequency 145.825 MHz.

+ Given that PCSAT should be in full sun starting December 9, Dec ember 14-19 we will switch to 1200 baud packet on 145.825 to support double hop opportunities.

+ And at times, especially during the weekends, you might see some SSTV operations if the crew is available.

We will provide more updates in the near future. We would like to remind everyone that ISS flight requirements related to EVA and vehicle activity may require the radio to be off for some portion of this schedule. And school contacts and general QSO opportunities by the crew will also preempt this schedule for short periods of time. (But remember that if you hearthese, you still qualify for a commemorative certificate).

Frank concluded, "In the meantime, enjoy the ARISS ops on ISS! And congratulations to Owen Garriott, W5LFL, on the 25th anniversary of his historic flight!!"

[ANS thanks Frank, KA3HDO for the above information]

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SB SAT @ AMSAT $ANS-335.03
SKN on OSCAR 2009

AMSAT News Service Bulletin 335.03
>From AMSAT HQ SILVER SPRING, MD.
November 30, 2008
To All RADIO AMATEURS
BID: $ANS-335.03

Ray Soifer, W2RS this week extended the annual cordial invitation to all radio amateurs worldwide to participate in AMSAT s Straight Key Night (SKN) on OSCAR 2009.

Participating in SKN on OSCAR 2009 is easy. No rules, no scoring and no need to send in a log. Just operate CW through any OSCAR between 0000 and 2400 UTC on 1 January 2009, using a straight hand key.

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for "Best Fist." Your nominee need not have the best fist of those you heard, just of those you worked. Please send your nomination to w2rs@amsat.org. A list of those nominated will appear in ANS and The AMSAT Journal.
CU SKN!

[ANS thanks Ray Soifer, W2RS for the above information]

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SB SAT @ AMSAT $ANS-335.04
GENSO Groundstation Development Opportunity For Students

AMSAT News Service Bulletin 335.04
>From AMSAT HQ SILVER SPRING, MD.
November 30, 2008
To All RADIO AMATEURS
BID: $ANS-335.04

GENSO Project Software Engineering Mentor, Dave, G4GPZ writing on behalf of the ESA Education Office invites students to apply to take part in the development of the system.

The Groundstation Educational Network for Spacecraft Operations (GENSO) is a system is aimed at CubeSat operators and Amateur Satellite users to enable more effective use of the devices by providing better wordwide opportunities for telemetry recovery.

More details can be found at http://www.genso.org and http://www.esa.int/esaED/SEMSOC5KXMF_index_0.html

The project is being sponsored by member agencies of ISEB.

AMSAT-UK is participating in the project by providing equipment recommemdations, setting up reference ground stations, software for predictions and hardware driver.

[ANS thanks Dave, G4DPZ and ESA for the above information]

/EX

SB SAT @ AMSAT $ANS-335.05
Call For Articles - Brief Author's Guide to the AMSAT Journal

AMSAT News Service Bulletin 335.05
>From AMSAT HQ SILVER SPRING, MD.
November 30, 2008
To All RADIO AMATEURS
BID: $ANS-335.05

You are invited to share your amateur radio in space ideas and experiences with fellow satellite operators. The AMSAT Journal, a bi-monthly publication of AMSAT-North America, brings you the latest information in satellite mission planning, satellite-related hardware design and construction, satellite-related soft-

ware design and implementation, and amateur radio earth station construction.

There are plenty of opportunities for you to share your ideas and experience across all levels. Did you homebrew a successful antenna? Which setup did you use for your first satellite contacts? A brief write-up and photos are appreciated by everyone!

Do you have ideas about future amateur radio space missions? Can you describe unique aspects of a particular orbit and the equipment needed to make it work? Simply type out your ideas on your computer and send them in. Let the AMSAT Journal editorial team do the clean up and formatting for you.

Its easy to send your article to the AMSAT Journal e-mail box via journal@amsat.org. There is no need to do any special formatting on your submission because the final layout format is driven by the magazine's typesetting software. All you need to include is:

+ Your text in MS-Word or plain text format
+ Graphics saved in separate files (jpg, gif, tiff)

(Actually, an MS-Word file with embedded graphics is the most difficult format to typeset.)

If you have any questions, or need some help feel free to contact the editors at the AMSAT Journal at journal@amsat.org. One of us will get back to you as soon as we can. To assist with your planning the submission deadline for articles is the 15th of each odd numbered month.

Ed Long, WA4SWJ Editor-in-Chief
Tim Lilley, N3TL Assistant Editor
Bill Hook, W3QBC Assistant Editor
JoAnne Maenpaa, K9JKM Assistant Editor

[ANS thanks the AMSAT Journal for the above information]

/EX

SB SAT @ AMSAT $ANS-335.06
ARISS Status Report for the Week of November 24, 2008

AMSAT News Service Bulletin 335.06
>From AMSAT HQ SILVER SPRING, MD.
November 30, 2008
To All RADIO AMATEURS
BID: $ANS-335.06

1. Upcoming School Contacts

The Wairarapa Home School Association in Carterton, Wairarapa, New Zealand had an ARISS contact on Wednesday, November 26 via telebridge station VK4KHZ in Australia. Students learned about

space exploration and the International Space Station to prepare for the contact. Age appropriate studies, exercises, and activities have been undertaken by all those who will be involved in the event which will include some of the parents.

An ARISS contact has been scheduled with St. Anthony's College in Shillong, India on Monday, December 1 at 08:04 UTC. Telebridge station WH6PN will facilitate the contact.

An ARISS contact has been approved for Alexandroupolis School of Special Education and 11th Alexandroupolis Primary School in Alexandroupolis, Greece. The contact will take place on Monday, December 1. Astronomy and amateur radio lectures have been given in preparation for the event. Special attention has been given to the role of humanity and science and to the every day life of an astronaut. The ISS courses have been based on ESA's education tool "ISS Education Kit."

Quispamsis Elementary and Middle Schools in Quispamsis, New Brunswick, Canada have been scheduled for an ARISS contact on Thursday, December 4 at 18:02 UTC. Math, Social Studies, and Literacy Skills have been emphasized through the participation of students in this project. Subjects of amateur radio, space, satellites and the ISS have been integrated into the science curriculum. Quispamsis Elementary School (QES) and the Loyalist City Amateur Radio Club (LCARC) have participated in AMSAT-Echo-51 Satellite contacts for the past two years. The Quispamsis Middle School has an enrichment program. Two years of students who participated in the satellite contacts at QES are also involved with this program. The amateur radio installation has been used to complement the enrichment program, and to demonstrate amateur radio to girl guides and scout troops. Children have created posters for placement in the school to publicize the event and local and national media coverage is anticipated.

2. First ARISS School Contact in New Zealand Successful

The first ARISS contact with a school in New Zealand took place on Thursday, November 20. Students from St. Teresa's School in Wairarapa connected with the ISS via the telebridge station VK4KHZ in Australia. Astronaut Mike Fincke, KE5AIT answered all questions from the 21 students as an audience of 130 watched. The audio was fed into the EchoLink AMSAT (101 377) and JK1ZRW (277 208) servers and received 7 connections from stations in Australia, New Zealand, Canada and the US There was extensive media coverage which included TVNZ, The Dominion Post, The Wellington Daily News and The Wairarapa Times Age. The contact was first reported on the late news on TV One at 10.30 pm on Thursday evening. It was repeated on 4 different occasions during the Early Morning and Midday news on TV One and a 3-4 minute slot was given in the Friday 6 pm evening news. The New Zealand Education Gazette editor also asked for details regarding the contact, as it is being written up for the December issue.

The Dominion Post article has been posted on-line.
See: http://www.stuff.co.nz/4767581a6479.html

To view The Wairarapa Times Age story, go to:
http://www.times-age.co.nz/localnews/storydisplay.cfm?storyid=3790845&thesec
tion=localnews&thesubsection=&thesecondsubsection=

TVNZ One News coverage may be found here:
http://tvnz.co.nz/view/page/2324497

3. ARISS Celebrates International Education Week

Students from Poolesville, Maryland, Raleigh, North Carolina and Quito, Ecuador participated in a joint ARISS contact on Friday, November 14 as part of International Education Week (IEW).

The students, as well as family members and other guests, reconvened on Tuesday, November 18. Poolesville High School students visited the U.S. Department of Education in Washington, D.C. where approximately 150 students participated, and the North Carolina and Ecuador schools tied in via videoconference for another IEW session. Former astronaut Don Thomas gave a presentation on International Exploration, from the past to the present, and ARISS Chairman Frank Bauer gave an overview of amateur radio and the ARISS contact using video of the students from the contact event. They joined GSFC Earth Observation expert Robert Cahalan in the expert panel session. Amateur radio operators from Hawaii, Italy, China, England, Spain, and Canada participated through a teleconference, giving talks about amateur radio and the culture of their countries. Students participated in the sessions and asked questions in English, but also in foreign languages such as Spanish and German.

4. ARISS International Team Meeting Held

The monthly ARISS International Team teleconference was held on Tuesday, November 18. Agenda items discussed included the next ARISS face to face meeting, SuitSat-2 status and on-orbit hardware. The minutes have been posted to the ARISS Web site.
See: http://www.rac.ca/ariss/arisstel2008-11-18.htm

[ANS thanks Carol, KB3LKI for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. With that please keep in mind that the preferred brand of coffee served aboard the Titanic was Sanka, of course.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM
K9JKM at amsat dot org

211. WSR-339 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-12-04 23:13:49 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000901c95665$ed98f5c0$c8cae140$@net>
Source record: 691
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-339.S1
WSR 339 Part 1 12/04/2008

AMSAT NEWS SERVICE BULLETIN 339.S1 FROM AMSAT HQ
SILVER SPRING, MD, December 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-339.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12042008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK

Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/
ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12042008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT

Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12042008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-339.S2
WSR 339 Part 2 12/04/2008

AMSAT NEWS SERVICE BULLETIN 339.S2 FROM AMSAT HQ
SILVER SPRING, MD, December 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-339.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25

Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12042008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM

1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]

=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM
Worldwide packet downlink: 145.825 Mhz FM

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3

Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12042008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-339.S3
WSR 339 Part 3 12/04/2008

AMSAT NEWS SERVICE BULLETIN 339.S3 FROM AMSAT HQ
SILVER SPRING, MD, December 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-339.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-339.S4
WSR 339 Part 4 12/04/2008

AMSAT NEWS SERVICE BULLETIN 339.S4 FROM AMSAT HQ
SILVER SPRING, MD, December 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-339.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-339.S5
WSR 339 Part 5 12/04/2008

AMSAT NEWS SERVICE BULLETIN 339.S5 FROM AMSAT HQ
SILVER SPRING, MD, December 04, 2008
TO ALL RADIO AMATEURS
BID: $ANS-339.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-
mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30
UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

212. Radio Meteor Obs. Bull. November 2008 Leonids

Newsgroup: rec.radio.amateur.space
Date: 2008-12-06 19:12:44 UTC
From: Chris Steyaert <observations@rmob.org>
Message-ID: <2kjlj49fjcmlhu3ko90qe75c6isp8k4o51@4ax.com>
Source record: 692
Cross-posted to: rec.radio.amateur.space,sci.astro.amateur

Radio Meteor Observation Bulletin No. 184 of November 2008 (71 K) is available now as

http://visualrmob.free.fr/rmobtext/rmob0811.txt

More information and the visual presentation of the hourly forward scatter counts can be found on

http://www.rmob.org

http://radio.data.free.fr

Chris

213. ANS-342 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-12-09 23:55:14 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001f01c95a59$8cca09d0$a65e1d70$@net>
Source record: 693
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-342

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* AO-16 Requires Several Restarts
* ARISS 25th Commemorative Event to Feature 9K6 Packet This Week
* Sumbandilasat to be Launch from Baikonur
* ARISS Status - 01 December 2008

SB SAT @ AMSAT $ANS-342.01
AO-16 Requires Several Restarts

AMSAT News Service Bulletin 342.01
From AMSAT HQ SILVER SPRING, MD.
December 7, 2008
To All RADIO AMATEURS
BID: $ANS-342.01

AO-16 Command Station, Mark N8MH reported this week, "As expected, over the last few days AO-16 has started to again experience 'shutdowns'. So far I've restarted the bird three times, and each time it appears to stay up for a day or more. We can expect the situation to worsen, as the eclipse periods get longer and the satellite temperatures continue to go down. We've been warning you, get those AO-16 contacts in now!"

Mark says he will try to restart AO-16 as long as possible when his schedule allows him. Satellite operator reports to the OSCAR Satellite Status page by KD5QGR at http://oscar.dcarr.org/ are very helpful.

Mark continues, "If the birds is operational in voice mode, you should clearly hear the "not-so-repressed carrier" on the downlink. I have a special request - if you do not hear the carrier, please do not transmit to AO-16, as your transmissions make it difficult to

command the satellite. And, if you hear the "hummmming" of the PSK transmitting, again please do not attempt to transmit to the bird; it's likely that I have restarted the bird and need to collect telemetry before configuring it into voice mode. Thanks to all you faithful AO-16 operators!"

Current operational mode for AO-16 (as available!):

Mode FM Voice Repeater (Downlink is DSB)
Uplink : 145.9200 MHz FM
Downlink 437.0260 MHz SSB

[ANS thanks Mark, N8MH for the above information]

/EX

SB SAT @ AMSAT $ANS-342.02
ARISS 25th Commemorative Event to Feature 9K6 Packet This Week

AMSAT News Service Bulletin 342.02
From AMSAT HQ SILVER SPRING, MD.
December 7, 2008
To All RADIO AMATEURS
BID: $ANS-342.02

As promised by ARISS, the 25th Anniversary Commemorative radio event started operations from the ISS amateur radio station this week. Early in the week several amateur stations around the world were able to copy the slow-scan television (SSTV) pictures transmitted from the ISS. On Friday, December 5 the ARISS crossband FM repeater was enabled with several stations reporting excellent signals. When the crossband repeater is operational its uplink is on 437.800 MHz FM with its downlink on 145.800 MHz FM. Remember to adjust for doppler shift when operating in this mode.

For the week of December 7-12 ARISS will run a test of 9600 baud packet operations on the simplex frequency 145.825 MHz.

To celebrate our 25 years of amateur radio operations from space, the ARISS team has planned a set of special event opportunities during the month of December and part of January. A special certificate is being developed for those who communicate with the ISS, either 2-way direct (with the ISS crew,the digipeater, or cross band repeater), or 1-way reception of SSTV or voice downlink. Several "surprises" planned over the month-long celebration. The surprises will be announced once ARISS is pre-positioned to accomplish them.

ARISS reminds everyone that ISS flight requirements related to EVA and vehicle activity may require the radio to be off for some portion of this schedule. And school contacts and general QSO opportunities by the crew will also preempt this schedule for short periods of time. But remember that if you hear these, you still qualify for a commemorative certificate.

[ANS thanks Frank, KA3HDO, AMSAT-NA V.P. for Human Spaceflight Programs
and ARISS International Chairman for the above information]

/EX

SB SAT @ AMSAT $ANS-342.03
Sumbandilasat to be Launch from Baikonur

AMSAT News Service Bulletin 342.03
From AMSAT HQ SILVER SPRING, MD.
December 7, 2008
To All RADIO AMATEURS
BID: $ANS-342.03

It is official! South Africa's second satellite, SumbandilaSat, will
be launched
from the Russian Baikonur Cosmodrome in the December to March time frame.

SumbandilaSat has been unpacked and is undergoing testing at SunSpace in
Stellenbosch before it will be shipped to Russia for integration with
the launch
vehicle. Engineers at the launch site are preparing a special adapter ring
to
accommodate the Sumbandila structure on the rocket.

"Sumbandila" means showing or pointing the way. Freely translated into
English
"Pathfinder"

The Amateur Radio Payload will be operating in conjunction with the
University
of Stellenbosch Software Defined Receiver project as it will share the VHF
receiver and UHF transmitter used by the SDR project.

SA AMSAT has designed and built a control system to facilitate the following
operations:

* V/U voice transponder with an uplink in the 2 metre band and a
downlink in
the 70cm band.

* A parrot repeater (voice digipeater)

* A voice beacon

The control unit will command the various function of the transponder
and handle
the parrot and beacon messaging. On receipt of a tone from the VUCU VHF
receiver, the CTCSS tone will be decoded and depending on the tone received
the
unit will command the VU transponder operation or the parrot repeater. In
the
transponder mode the satellite will act like a cross-band FM repeater and
allow
two way communications with other stations on the ground.

If the tone received indicates parrot operation, the interface unit will record
20 seconds of audio on its VHF uplink receiver and replay the recorded audio on
the UHF downlink.

Should, for a predetermined period, there be no tones received, the controller
will initiate a voice beacon, transmitting a pre-recorded message at regular
intervals. This facility will offer many opportunities for educational
projects.

[ANS thanks SA AMSAT for the above information]

/EX

SB SAT @ AMSAT $ANS-342.04
ARISS Status - 01 December 2008

AMSAT News Service Bulletin 342.04
From AMSAT HQ SILVER SPRING, MD.
December 7, 2008
To All RADIO AMATEURS
BID: $ANS-342.04

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been
scheduled with Ellis School in Belleville, Illinois on Monday, December 8 at
16:54 UTC. Space studies have been integrated into the school curriculum.
Students have created solar system models, written reports and given
presentations to their classes. They have designed rockets and given talks to
the class about where the rockets will go and what they will do in space. They
have planned space colonies and determined how the astronauts will travel, how
they will obtain food and where they will live. They have also sampled space
food. Students have learned about Expedition 18, the Space Shuttle, the
international partners and the ISS and amateur radio. The class is currently
growing seeds that were flown in space.

An Amateur Radio on the International Space Station (ARISS) contact has been
scheduled for Stephen F. Austin Elementary School in Richmond, Texas on Tuesday,
December 9 at 15:43 UTC. Students have studied space and the identifying
characteristics of objects in our solar system including the sun, planets, and
moon. Each year the 5th grade students participate in a simulated space shuttle
mission, performing tasks that would happen on a regular shuttle flight. Each

grade level is involved in some manner with the various missions that occur throughout the day. The school has integrated the ARISS contact as part of this
activity.

The Istituto Comprensivo "Marco Polo," in Grado, Italy has been scheduled for an
Amateur Radio on the International Space Station (ARISS) contact on Wednesday,
December 10 at 10:08 UTC.

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with 2 Circolo Didattico San Giuseppe in Mola di Bari, Bari, Italy on
Friday, December 12 at 14:14 UTC. Lesson plans have been developed for students
that cover amateur radio and space missions. Newspapers, radio and television,
both local and regional, will report on the event.

2. New Zealand Homeschoolers Experience ARISS Contact

Wairarapa Home School Association students from Carterton, Wairarapa, New Zealand participated in an Amateur Radio on the International Space Station (ARISS) contact on Wednesday, November 26 via telebridge stations VK5ZAI and
VK4KHZ, both in Australia. Mike Fincke, KE5AIT, answered all 15 questions asked. The audio was available on EchoLink and Internet Radio Linking Project
(IRLP). This was the second ARISS contact performed with New Zealand students.

3. Video of ARISS - International Education Week Contact

Students from Poolesville, Maryland, Raleigh, North Carolina and Quito, Ecuador
experienced a joint Amateur Radio on the International Space Station (ARISS) contact on Friday, November 14 as part of International Education Week (IEW).
A video of the participating students from North Carolina and Ecuador has been
posted to YouTube. See: http://www.youtube.com/watch?v=6d3D66DbBEo

4. CQ VHF Article on ARISS Meetings

Amateur Radio on the International Space Station (ARISS) member Keith Pugh, W5IU, wrote an article for the Fall 2008 issue of CQ VHF which covered the ARISS
meetings held in Moscow during July 2008. An excerpt from the article may be viewed here: http://www.cq-vhf.com/Fall08Sat.html

5. ARISS Commemorative Event

Twenty-five years ago, Owen Garriott, W5LFL, became the first amateur radio operator to talk to hams from space on the STS-9 Space Shuttle Columbia mission
which was launched on November 28 and landed on December 8, 1983. To celebrate
this event, an Amateur Radio on the International Space Station (ARISS) commemorative event will be held during the month of December through early January. A special certificate is being developed for those who communicate with the ISS, either 2-way direct (with the ISS crew, the digipeater, or cross
band repeater), or 1-way reception of SSTV or voice downlink. For more details,
see: http://www.ariss-eu.org/2008_11_30.htm

[ANS thanks Carol, KB3LKI, for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS

214. WSR-346 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-12-12 04:46:55 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000701c95c14$9ca77010$d5f65030$@net>
Source record: 694
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-346.S1
WSR 346 Part 1 12/11/2008

AMSAT NEWS SERVICE BULLETIN 346.S1 FROM AMSAT HQ
SILVER SPRING, MD, December 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-346.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12112008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK

Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/
ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12042008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v 9k6
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT

Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12112008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-346.S2
WSR 346 Part 2 12/11/2008

AMSAT NEWS SERVICE BULLETIN 346.S2 FROM AMSAT HQ
SILVER SPRING, MD, December 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-346.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Semi-Operational - Constant Carrier only

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[01082007]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - /u

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25

Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12112008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM

1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]

=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v 9k6
APRS - V/v 9k6
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
German: DP0ISS
Russian: RS0ISS
RZ3DZR
USA: NA1SS
Packet Mailbox: RS0ISS-11
Packet Keyboard: RS0ISS-3

Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12112008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-346.S3
WSR 346 Part 3 12/11/2008

AMSAT NEWS SERVICE BULLETIN 346.S3 FROM AMSAT HQ
SILVER SPRING, MD, December 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-346.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====

TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828

Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-346.S4
WSR 346 Part 4 12/11/2008

AMSAT NEWS SERVICE BULLETIN 346.S4 FROM AMSAT HQ
SILVER SPRING, MD, December 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-346.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-346.S5
WSR 346 Part 5 12/11/2008

AMSAT NEWS SERVICE BULLETIN 346.S5 FROM AMSAT HQ
SILVER SPRING, MD, December 11, 2008
TO ALL RADIO AMATEURS
BID: $ANS-346.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-
mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30
UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
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215. ANS-349 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-12-14 16:15:26 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001401c95e07$24cc98a0$6e65c9e0$@net>
Source record: 695
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-349

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* Special ARISS Certificate
* AMSAT donor operations loaners
* AMSAT's Volunteer Reporting System Needs Your Input
* SKN on OSCAR 2009
* ARISS Status - 08 December 2008

SB SAT @ AMSAT $ANS-349.01
Special ARISS Certificate

AMSAT News Service Bulletin 349.01
From AMSAT HQ SILVER SPRING, MD.
December 14, 2008
To All RADIO AMATEURS
BID: $ANS-349.01

All,

The ARISS team has had a number of queries on several topics. It is hoped that this e-mail will answer these for you.

1) 25th Anniversary of Ham in Space Special Event Certificate---Many have asked how to receive the special certificate and what qualifies you for the certificate.

Qualification: Those that have had 2 way communications with the ISS on Voice, Packet (APRS), or through the voice repeater. And those that have heard the ISS from space in any of the ARISS operations modes (Voice, SSTV, School Contact, Voice Repeater, Digital). Valid dates to qualify for certificate: November 30 to January 15.

Receiving the Certificate:
A) Please note on your QSL the ARISS mode of operation (e.g. SSTV, voice, school, etc) and whether the contact with you was 1 way (receive

only) or 2 way.
B) Send your SASE to the normal ARISS QSL volunteer distributor in your area of the world.
C) On the outside of the QSL envelope, please include the words "25th Anniversary Certificate"
D) Make sure your envelope is big enough to accept an 8.5 by 11 inch certificate and includes the proper postage.
E) Go to www.ariss.org if you do not know where to send your QSL and please use one of the standard international QSL distributors that are noted on the Web page.

Important note: We will be sending your certificate to the volunteer distributors in bulk AFTER the event is over. (This saves workload and money). So do not expect to see it until 1-2 months after the event closes on January 15.

2) Richard Garriott QSL Card---there are have several queries about the final results of Richard Garriott's flight and how the QSL cards will be handled.

QSO Results: Richard made over 500 voice QSOs during his flight, clearly more than any single ham has made on-orbit during a short duration mission. And he sent down about 1000 SSTV images during his flight.

QSL Card: Those that had a QSO with Richard can receive an ARISS QSL card using the normal ARISS process. (See www.ariss.org). Richard Garriott is also planning a personal card which is in development. Once it is developed, they will be shipped to the ARISS international QSL distribution volunteers for distribution. The current plan is that those that have already sent in for an ARISS QSL card will also get a Richard Garriott personal card once it is available. If you made a contact with Richard, have not sent in your QSL, and would like Richard's personal QSL card, please stand by for QSL distribution instructions until the QSL card is ready. The distribution of this special QSL will parallel how we are distributing the 25th Anniversary Certificate.

3) SSTV Operations Web Site---The ARISS team appreciated the special web page support from UC Berkeley. They allowed us to use their server to support SSTV operations during the Richard Garriott's flight. This was a temporary solution. The web site is currently down while we move the web pages from the Berkeley site to the AMSAT server. This should be completed in the next few days. You will see a follow-on e-mail with details on connecting up to the SSTV Operations server. We thank you for your patience.

On behalf of the ARISS International team of volunteers, I thank you all for your interest and participation in the ARISS Program.

73, Frank Bauer, KA3HDO
AMSAT V.P. for Human Spaceflight Programs
ARISS International Chairman

[ANS thanks Frank, KA3HDO, for the above information]

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SB SAT @ AMSAT $ANS-349.02
AMSAT donor operations loaners

AMSAT News Service Bulletin 349.02
From AMSAT HQ SILVER SPRING, MD.
December 14, 2008
To All RADIO AMATEURS
BID: $ANS-349.02

The AMSAT Operations team is in the process of acquiring a few sets of basic loaner gear that will be available to DXpeditions and other groups in order to promote activity on the satellites. Initially these will consist of simple FM portable stations including a full duplex dual band HT and an Arrow or other suitable antenna. Depending on the success of the program, we will likely expand it to include the transponder and digital satellites as well. We also expect to be able to integrate AO-51 operations into the program. In the recent past, similar efforts have been undertaken by individuals within AMSAT, including W9AE's AO-40 package, and KO4MA's gear loaned to the KG4SB Gitmo operation.

Thanks to the past generosity of AMSAT-OZ and a few individual donors to a prior personal effort to equip a Peruvian university station for AO-40, I have approximately 140 dollars to redirect to this project. To complete the first phase of this, I'd like to have on hand two split boom Arrow antennas with diplexers and two late model full duplex handhelds. The preferred rig is the Kenwood D-7 or Yaesu FT-530. These will be packaged together in two custom crush-proof PVC carrying tubes. We already have a major DXpedition to a location within LEO range of most of North America interested in participating in the early part of 2009.

If businesses, organizations or individuals would like to assist in this program, please email me at ko4ma@amsat.org. All sponsors will receive full recognition from AMSAT for their participation. As indicated above, our major needs at this point are two split boom Arrow antennas with diplexers and two full duplex dual band HTs.

73 and thanks for your support of AMSAT,
Drew KO4MA
AMSAT-NA VP Operations

[ANS thanks Drew, KO4MA, for the above information]

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SB SAT @ AMSAT $ANS-349.03
AMSAT's Volunteer Reporting System Needs Your Input

AMSAT News Service Bulletin 349.03
From AMSAT HQ SILVER SPRING, MD.
December 14, 2008
To All RADIO AMATEURS

BID: $ANS-349.03

AMSAT's Volunteer Reporting System Needs Your Input

AMSAT Treasurer, Gunther W8GSM requests AMSAT volunteers update their Time spent on AMSAT Projects in the Volunteer Reporting System. See: http://www.amsat.org/amsat-new/volunteers/login.php - and - http://www.amsat.org/amsat-new/volunteers/about.php

Gunther said, "AMSAT's audit firm is going to start the 2008 Audit On January 15, 2009 in an attempt to get it out in a more timely manner. To that end, I need to ask all of you to submit your VRS volunteer time reports to the web site prior to December 31 of this year. I have work to do on that data and need the first couple weeks in 2009 to get that done. SO, PLEASE SUBMIT ANY UNREPORTED VOLUNTEER TIME SPENT FOR AMSAT ASAP!"

[ANS thanks Gunther, W8GSM for the above information]

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SB SAT @ AMSAT $ANS-349.04
SKN on OSCAR 2009

AMSAT News Service Bulletin 349.04
From AMSAT HQ SILVER SPRING, MD.
December 14, 2008
To All RADIO AMATEURS
BID: $ANS-349.04

SKN on OSCAR 2009

Ray Soifer, W2RS extends the annual cordial invitation to all radio amateurs worldwide to participate in AMSAT's Straight Key Night (SKN) on OSCAR 2009.

Participating in SKN on OSCAR 2009 is easy. No rules, no scoring and no need to send in a log. Just operate CW through any OSCAR between 0000 and 2400 UTC on 1 January 2009, using a straight hand key.

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for "Best Fist." Your nominee need not have the best fist of those you heard, just of those you worked. Please send your nomination to w2rs@amsat.org. A list of those nominated will appear in ANS and The AMSAT Journal.
CU SKN!

[ANS thanks Ray Soifer, W2RS for the above information]

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SB SAT @ AMSAT $ANS-349.05
ARISS Status - 08 December 2008

AMSAT News Service Bulletin 349.05
From AMSAT HQ SILVER SPRING, MD.
December 14, 2008
To All RADIO AMATEURS
BID: $ANS-349.05

1. India College Experiences Successful Contact

Students attending St. Anthony's College in Shillong, India participated in a question and answer session with Mike Fincke, KE5AIT. The Amateur Radio on the International Space Station (ARISS) contact took place on Monday, December 1 via telebridge station WH6PN in Hawaii. Over 700 students, staff and guests witnessed the contact as 11 students asked one question each of the astronaut. Television stations covering the news included DD National, Peitngor Cable News (PCN) Channel and Ri Khasi Channel. The Shillong Times, Meghalaya Guardian, Sentinel and other Khasi local newspapers were also present. St. Anthony's college is the alma mater of Mr. Rupesh Saikia, father-in-law of astronaut Mike Fincke.

2. Canadian Contact Successful

Quispamsis Elementary and Middle Schools in New Brunswick, Canada experienced an Amateur Radio on the International Space Station (ARISS) contact on Thursday, December 4. Mike Fincke, KE5AIT, answered 20 questions posed to him by twenty students. Representatives from the School District and the Municipal, Provincial and Federal Government were invited. Audio was fed into the EchoLink server and received four connections. Media coverage included television, radio and newspapers. The Telegraph Journal ran an article on the contact. See: http://telegraphjournal.canadaeast.com/city/article/article/502323

CBC (Canadian Broadcasting Corporation) News also covered the event. Go to: http://www.cbc.ca/technology/story/2008/12/05/nb-space-talk.html

Radio station Country 94 CHSJ posted a short summary: http://www.country94.ca/country94/post/13-1658386395336820565/Thursday/

3. ARRL Article on ARISS - IEW Events

Students from Poolesville, Maryland, Raleigh, North Carolina and Quito, Ecuador experienced a joint Amateur Radio on the International Space Station (ARISS) contact on Friday, November 14 as part of International Education Week (IEW). They connected again for another informative session with amateur radio operators from around the world and an expert panel which included astronaut Don Thomas. The American Radio Relay League (ARRL) ran an article on these events. See: http://www.arrl.org/news/stories/2008/12/02/10489/?nc=1 The ARRL Letter printed the story in its December 5 issue. See: http://www.arrl.org/arrlletter/08/1205/

5. ARRL Covers ARISS Special Event

The American Radio Relay League (ARRL) posted a story on the Amateur Radio on the International Space Station (ARISS) special event to celebrate 25 years of ham radio in space. To view the article, go to: http://www.arrl.org/news/stories/2008/12/01/10481/?nc=1
The ARRL Letter included the news in its December 5 issue. See: http://www.arrl.org/arrlletter/08/1205/

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,
This week's ANS Editor,
Dee Interdonato, NB2F

216. WSR-346 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-12-19 20:51:15 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <001001c9621b$7fb4bc80$7f1e3580$@net>
Source record: 696
Cross-posted to: rec.radio.amateur.space,rec.radio.info

This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-353.S1
WSR 346 Part 1 12/18/2008

AMSAT NEWS SERVICE BULLETIN 353.S1 FROM AMSAT HQ
SILVER SPRING, MD, December 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-353.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-FM/u-FM QRP
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12182008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK

Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/
ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12042008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW
145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v 9k6
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT

Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[121812008]
NNNN
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SB SAT @ AMSAT W8ISS ANS-353.S2
WSR 346 Part 2 12/18/2008

AMSAT NEWS SERVICE BULLETIN 353.S2 FROM AMSAT HQ
SILVER SPRING, MD, December 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-353.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895
Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
V-FM/u-FM QRP
BBS - OFF
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol

2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12182008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Hibernation until full sunlight in November

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM

1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm
[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46

[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v 9k6
APRS - V/v 9k6
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplink: 437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR

United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12182008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-353.S3
WSR 346 Part 3 12/18/2008

AMSAT NEWS SERVICE BULLETIN 353.S3 FROM AMSAT HQ
SILVER SPRING, MD, December 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-353.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2

Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====
UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB
K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]

=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT

Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]
=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====

WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III

Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]
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SB SAT @ AMSAT W8ISS ANS-353.S4
WSR 346 Part 4 12/18/2008

AMSAT NEWS SERVICE BULLETIN 353.S4 FROM AMSAT HQ
SILVER SPRING, MD, December 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-353.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??
Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web
page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-353.S5
WSR 346 Part 5 12/18/2008

AMSAT NEWS SERVICE BULLETIN 353.S5 FROM AMSAT HQ
SILVER SPRING, MD, December 18, 2008
TO ALL RADIO AMATEURS
BID: $ANS-353.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live
radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz.
Pre-net operations start at 18:00 UTC, with current ANS bulletins trans-
mitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30
UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/mailman/listinfo/ans

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
/EX

217. ANS-356 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-12-21 02:48:30 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000301c96316$933f2870$b9bd7950$@net>
Source record: 697
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-356

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

In this edition:

* AMSAT President's Letter
* ARISS 25th Anniversary Adds New Modes
* ARISS Discusses L-Band Operating Parameters
* Tracking QRM - AO-51 Repeater Pairs Return to Normal Configuration
* PCSAT-1 Recovery Partial Success
* Satellite Shorts From All Over
* Mark Your Calendars - 2009 AMSAT Symposium October 9-10
* Reminder: SKN on OSCAR 2009

SB SAT @ AMSAT $ANS-356.01
AMSAT President's Letter

AMSAT News Service Bulletin 356.01
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.01

Happy Holidays! Best wishes to everyone during this festive time of the year. As I write this, a major snowstorm is providing plenty of 'white stuff' in the Midwest and New England, so I presume this means that we will have a white Christmas here in Massachusetts. While this is certainly a time of economic uncertainty, I also know that our members continue to make a difference for AMSAT.

A number of interesting opportunities and events have developed over the past two months for AMSAT that I would like to briefly share with you:

1. ARISS Silver Anniversary. The first amateur radio two-way communication between the Space Shuttle and amateurs on the

ground took place on December 3, 1983 when Owen Garriott, W5LFL made his historic flight on STS-9. There are a number of opportunities for amateurs to help celebrate this event and the ARISS International Committee, chaired by AMSAT VP-Human Space Flight, Frank Bauer, KA3HDO have arranged for some special events. Please check ANS and the AMSAT webpage (www.amsat.org) for the latest information and join the fun!

2. AO-16 operations. As expected, performance of this spacecraft is declining as the spacecraft's temperature is dropping due to longer eclipses resulting in less sunlight and a cooler spacecraft. This drop in temperature is causing the satellite's hardware timer to reset until the spacecraft warms up (when there is at least 85% illumination). If you're interested in making two-way contacts using AO-16's unique cross mode, cross band voice repeater, with an uplink on 145.920 FM and downlink on 437.026 MHz reduced carrier AM, now is the time to try it! The satellite is expected to 'go silent' shortly when temperatures stay low enough as to not allow software configuration of the satellite before the hardware timer resets itself again.

3. President's Club. A fundraising appeal letter was mailed this week to all AMSAT members. Please consider donating to the AMSAT President's Club so that we can continue our efforts to maintain amateur radio in space.

4. Near Term Engineering Task Force. I announced at the AMSAT Annual Meeting in Atlanta that a group led by Bill Ress, N6GHZ had been formed to review the 'Rideshare' Proposal developed by Tom Clark, K3IO as well as evaluate AMSAT's ability to develop a modularization strategy to adapt RF packages to various structures. The committee has been diligently meeting every two weeks via teleconference to discuss future options for AMSAT and to help structure AMSAT's thinking on future spacecraft opportunities. While it is too soon for formal announcements of their findings, it is good to know that we have a formal group actively focused on engineering issues.

5. SuitSat-2. Development work continues to place SuitSat-2 in service sometime in 2009. Several engineering issues have recently surfaced regarding modulation and transmission schemes and the team is evaluating several options regarding how best to resolve the issues. Several individuals have recently joined the engineering team to help overcome these challenges by developing potential alternative solutions.

6. ITAR. I announced at the AMSAT Annual Meeting in Atlanta that AMSAT would actively develop a strategy concerning ITAR (International Traffic in Arms Regulations) and related export regulations. Our goal is to ensure that AMSAT is in full compliance with ITAR, develop materials to train our satellite builders on ITAR compliance, and to seek ways where we may continue to work with other AMSAT organizations on satellite projects. Since the Annual Meeting, Bill Ress, N6GHZ and I have

been working with an attorney who specializes in ITAR. We hope to make a formal submission to the State Department regarding ITAR in early 2009.

7. AMSAT Lab. AMSAT is actively seeking a new home for our AMSAT Lab. Unfortunately, due to changes that took place at HISS (Hawk Institute for Space Sciences) in Pocomoke City, MD over the summer, we are forced to remove our equipment and clean room from the current facility. We are in active discussions with several institutions concerning potential relocation, but no decision has been made. If you are in position to provide contacts with a not-for-profit institution that might be interested the hosting the AMSAT Lab, please contact me.

8. AMSAT 40th Anniversary. AMSAT was incorporated in 1969, so this coming year (2009) is our 40th Anniversary! The 2009 AMSAT Symposium will take place the weekend of October 9 in the Washington-Baltimore area. Look for details in the upcoming AMSAT Journal. Please join us that weekend as we celebrate a significant milestone for AMSAT and build the foundation for the next 40 years of AMSAT.

As you can see, there are a number of activities that are ongoing within AMSAT. While we are challenged by the impact of current events, we continue to move forward in a number of areas.

As always, I appreciate hearing from the AMSAT membership. Should you have any questions or concerns about AMSAT, please don't hesitate to contact me. I will make every effort to respond to e-mails that I receive, but please keep in mind that I travel extensively which may limit my ability to respond quickly. Please know that I read every e-mail that I receive from AMSAT members and that I appreciate every person's willingness and time spent to share their thoughts and suggestions.

Seasons Greetings,

Barry Baines, WD4ASW
President-AMSAT

[ANS thanks Barry, WD4ASW for the above information]

/EX

SB SAT @ AMSAT $ANS-356.02
ARISS 25th Anniversary Adds New Modes

AMSAT News Service Bulletin 356.02
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.02

ARISS International Chairman and AMSAT-NA V.P. for Human Spaceflight Programs Frank Bauer, KA3HDO invites amateur radio operators around the world to join in the ARISS team's 25th anniversary of amateur radio operations from space. Increased activity and new exciting modes of operation from the ARISS amateur radio station aboard the

International Space Station are featured in this celebration operating period.

To date, the ISS crew has configured the radio to support cross-band repeater operations, they have supported some SSTV downlinks and we have had the opporunity to participate in a special test of 9600 baud packet radio operations on the simplex frequency of 145.825 MHz. This past week featured 1200 baud packet operations on 145.825 MHz to open a dual-hop APRS path in case PCSAT-1 became operational.

For the upcoming weeks the following is being planned in the near-term:

+ December 21-26 - we plan to support the Crossband repeater mode with a twist. Our intent is to configure the radio for 145.99 MHz uplink including PL tone of 67.0 and 437.80 MHz down. This will be performed in low power mode.

+ December 22 - Expedition 18 Commander Mike Fincke and Flight Engineer Yury Lonchakov plan to perform a spacewalk. As per standard procedure, the ISS ham radio system will be turned off for the EVA.

+ December 28-January 3 - we plan to reconfigure the Crossband repeater for a special experiment. This will be a test of our L-Band uplink capability, which, to date, has not been proven out. Plan for an uplink of 1269.65 MHz and and downlink on the standard frequency 145.80 MHz using low power. Given the subtantial cable losses of the L-band system, we hope some "big guns" are able to penetrate through, keep up with doppler, and make the connection.

+ And at times, especially during the weekends, you might see some SSTV operations if the crew is available.

The ARISS team will provide more updates in the near future. They would like to remind everyone that ISS flight requirements related to EVA and vehicle activity may require the radio to be off for some portion of this schedule. And school contacts and general QSO opportunities by the crew will also preempt this schedule for short periods of time. (But remember that if you hear these, you still qualify for a commemorative certificate).

Details of how to receive your ARISS 25th Anniversary Commemorative Certificate can be found at http://www.amsat.org.

[ANS thanks Frank, KA3HDO for the above information]

/EX

SB SAT @ AMSAT $ANS-356.03
ARISS Discusses L-Band Operating Parameters

AMSAT News Service Bulletin 356.03
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.03

ARISS US Hardware Manager Lou McFadin, W5DID provided a summary of expected parameters for those considering trying to make a contact with the ISS on L-band to VHF crossband repeater experiment planned for December 28 to January 3.

Lou reported, "The measured sensitivity of the L band receiver on a D700, as the radio aboard the ISS, is -105dBm for full quieting. The cable loss from the radio to the antenna is 9.3db. The antenna gain is zero db. The polarization is LHCP."

Extending the calcuations to cover the entire system path, Lou said, "The path loss at the horizon on L band is -160dB. That means the required EIRP for a full quieting contact at the horizon is 65dBm. The path loss decreases by 15dB at 80 degrees elevation so that means you can get full quieting with 50dBm in that case. To further elaborate if you use a 20dB gain antenna (a small dish), it is estimated that you can complete a QSO with 32 watts at the horizon or 1 watt at 80 degrees elevation."

The planned operating frequencies include:
Uplink: 1269.650 MHz FM
Downlink: 145.800 MHz FM

[ANS thanks Lou, W5DID for the above information]

/EX

SB SAT @ AMSAT $ANS-356.04
Tracking QRM - AO-51 Repeater Pairs Return to Normal Configuration

AMSAT News Service Bulletin 356.04
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.04

AMSAT-NA VP Operations, Drew KO4MA reported on behalf of the AO-51 Operations Team, "We are now back to the normal uplink arrangement of 145.920 and 435.300 for normal repeater use. We changed from the QRM mitigation experiment of operating via the 145.880 uplink back to this normal mode to enable low-power repeater QRP operation. The QRP repeater is now operational on 145.880 and 435.150."

As a result of the QRM investigation Drew said, "I'm convinced not all of our problems are related to the cordless phones. I heard tonight whistlers, blowing in the mike, and folks giving extended CQs. We are working on finding the general location of the cordless phones, but it takes time. Then we'll work at shutting them down.

The AO-51 Operations Team provided results of their QRM investigation on and around the 145.920 uplink. There may be some low level modulation on some of the signals in the captured waterfall diagram. It is believed they may be from some of the same long distance phones that were plauging AO-27 and SO-50 a few years ago. Observations indicate the interfering signals are lost about the time the edge of the footprint crosses the mid Atlantic states. Refer to this page: http://i139.photobucket.com/albums/q305/glasbrenner/FO-29QRM-1.jpg

[ANS thanks Drew, KO4MA for the above information]

/EX

SB SAT @ AMSAT $ANS-356.05
PCSAT-1 Recovery Partial Success

AMSAT News Service Bulletin 356.05
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.05

Bob, WB4APR provided an update on PCSAT-1 recovery status from the U.S. Naval Academy Satellite Laboratory. Bob wrote, "For the first time in 7 years, we were not able to fully recover PCSAT during this full sun period despite the efforts of a number of dedicated volunteers around the world."

PCSAT-1 is only operation when its solar panels are illuminated by sunlight. Full sun periods occur when passes are at sunrise and sunset to earth observers. PCSAT gets sun 24 hours a day then, but only on the side panels due to the orientation of the satellite. Ground station controllers were able to recover PCSAT-1 and the weak solar illumination allowed operation for generally an orbit before the power budget could not support the load.

Bob summarized, "Anyway, this is not the last you will hear of PCSAT, but there will probably not be any more several week full sun, full recovery periods as there have been in the past. I really appreciate all the efforts of so many operators. So play packet on the ISS and thanks again for all your efforts!"

[ANS thanks Bob, WB4APR for the above information]

/EX

SB SAT @ AMSAT $ANS-356.06
Satellite Shorts From All Over

AMSAT News Service Bulletin 356.06
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.06

+ The EME DXpedition to Namibia between January 7-16, 2009 plans to include satellite operation via AO-7, FO-29 and AO-51. Their main goal is to activate Namibia on 50, 144, 432 and 1296 MHz EME. The operators will be ZS6WB Hal, ZS6OB Pine, ZS6BUG Dick, ZS6AC Sarel, N7BHC Dave, HB9CRQ Dan. Read more at: http://hb9q.ch/joomla/index.php

+ John K8YSE says all of the requests for QSL cards for contacts with K8YSE/7 in DM31, Organ Pipe Cactus National Monument, 18-19 November and DM51, 22 November, Bisbee, Arizona have been put in the mail.

+ Nader,ST2NH reported an interesting AO-51 QSO with Sarel, S79AC from the Seychelles Islands. Sarel was using an FT-817 and an Arrow antenna.

+ Please note that the address for ARISS-Europe QSL requests has been updated. The correct address is: F1MOJ - Mr CANDEBAT Christophe, ARISS-Europe QSL Manager, 25th Anniversary Certificate, 19 Chemin des Escoumeilles, 66820 VERNET les Bains, FRANCE.

+ Jim, ND9M/VQ9JC is operating on a merchant marine ship from the Persian Gulf to Diego Garcia. His gear includes a Kenwood TH-6FA and Arrow-2 to operate on AO-51 and SO-50. He plans to be in Diego Garcia grid (MI62) until April, 2009.

+ Some of the presentations from Ansoft's Inspiring Engineering workshops covering radio frequency engineering from HF to microwave, EMI, and power systems are available on-line at:
http://www.ansoft.com/ie/index.cfm?src=iemailp

+ AMSAT President Barry Baines' report on the State of AMSAT given at the 2008 AMSAT Symposium in Atlanta is available on-line at:

http://www.amsat.org/amsat-new/pdfs/2008_Annual_Meeting/2008-10-25_WD4ASW_Annual_Meeting.pdf

+ A video of the September 13, Prairielands Council Scouts ARISS contact has been posted on-line at: http://www.youtube.com/watch?v=MsL4OkZb9CQ

+ Congratulations to Terry G1WPR on his 4000th contact via AO-7.
(thanks K3SZH)

[ANS thanks everyone for the above information]

/EX

SB SAT @ AMSAT $ANS-356.07
Mark Your Calendars - 2009 AMSAT Symposium October 9-10

AMSAT News Service Bulletin 356.07
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.07

The 2009 AMSAT Space Symposium and Annual Meeting will be held on October 9th and 10th. On the 11th and 12th, there will be an ARISS meeting open to the membership. The meetings will be held at the

Sheraton Four Points at BWI Airport. 2009 will be the 40th Anniversary of AMSAT. We hope many of you will be able to come and help us celebrate.

AMSAT is also planning an number of activities and displays highlighting our 40th Anniversary at Dayton this year. The 2009 Dayton Hamvention will be 15-17 May 2009, so mark your calendars and plan on visiting the AMSAT booth and relive 40 years of keeping amateur satellites in space.

[ANS thanks Gould, WA4SXM and the 2009 Symposium Committee for the above information]

/EX

SB SAT @ AMSAT $ANS-356.08
Reminder: SKN on OSCAR 2009

AMSAT News Service Bulletin 356.08
>From AMSAT HQ SILVER SPRING, MD.
December 21, 2008
To All RADIO AMATEURS
BID: $ANS-356.08

Ray Soifer, W2RS extends the annual cordial invitation to all radio amateurs worldwide to participate in AMSAT's Straight Key Night (SKN) on OSCAR 2009.

Participating in SKN on OSCAR 2009 is easy. No rules, no scoring and no need to send in a log. Just operate CW through any OSCAR between 0000 and 2400 UTC on 1 January 2009, using a straight hand key.

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for "Best Fist." Your nominee need not have the best fist of those you heard, just of those you worked. Please send your nomination to w2rs@amsat.org. A list of those nominated will appear in ANS and The AMSAT Journal.
CU SKN!

[ANS thanks Ray Soifer, W2RS for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office. With that do recall that the roundest knight at King Arthur's Round Table was Sir Cumference. He acquired his size from too much pi.

73,
This week's ANS Editor,
JoAnne Maenpaa, K9JKM

218. WSR-360 AMSAT Weekly Satellite Report

Newsgroup: rec.radio.amateur.space
Date: 2008-12-27 02:21:25 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <005301c967c9$c7972a70$56c57f50$@net>
Source record: 698
Cross-posted to: rec.radio.amateur.space,rec.radio.info

```
This report is organized into five (5) parts.
Part 1 (S1) - operational analog amateur satellites
Part 2 (S2) - operational digital amateur satellites
Part 3 (S3) - non - operational satellites
Part 4 (S4) - proposed satellites
Part 5 (S5) - deborbited/returned satellites

SB SAT @ AMSAT W8ISS ANS-360.S1
WSR 360 Part 1 12/25/2008

AMSAT NEWS SERVICE BULLETIN 360.S1
FROM AMSAT HQ SILVER SPRING, MD, December 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-360.S1

DO-64 Delfi-C3
Catalog number: 32789
Launch Date: April 28, 2008

Status: OPERATIONAL
Current Mode: U/v - voice

Telemetry: 145.870 MHz

Downlink: 145.880 to 145.920 MHz
Uplink: 435.530 to 435.570 MHz

Proposed Frequencies:
Primary telemetry downlink: 145.870 MHz 1200 Baud BPSK AX.25 400mW
Backup telemetry downlink: 145.930 MHz 1200 Baud BPSK AX.25 400mW
Linear transponder passband downlink: 145.880 - 145.920 MHz(inverting)
Linear transponder passband uplink: 435.570 - 435.530 MHz
Transponder mode beacon: 145.870 MHz CW (10dB below transponder PEP)

Delfi-C3 web page: http://www.delfic3.nl/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=68
[07312008]
=====
VO-52 HAMSAT
Catalog number: 28650
Launch Date: May 05,2005

Status: Operational
Current Mode: U/v - Indian Transponder
```

Frequencies:
Indian Transponder:
Uplink: 435.220 to 435.280 MHz LSB/CW
Downlink: 145.930 to 145.870 MHz USB/CW

Dutch Transponder:
Uplink: 435.225 to 435.275 MHz LSB/CW
Downlink: 145.925 to 145.875 MHz USB/CW

Indian Beacon: 145.859330 MHZ CW
Dutch Beacon: 145.860 MHz 12WPM with CW message

Mode and Antenna Polarization:
V: LHCP
U: RHCP

Official Webpage: http://www.amsatindia.org/hamsat.htm

To know what transponder is switched on please listen for the beacon
that is active. Each transponder has a different beacon.
[08072008]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12252008]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launch date: December 20, 2002

Status: Operational.

Current Mode: V/u

Uplink: 145.850 MHz FM - 67.0 Hz PL tone
Downlink: 436.795 MHz

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://saudisat.kacst.edu.sa/index.shtml
(not up and running currently)

To switch the transmitter on, you need to send a CTCSS tone of 74.4
Hz. The order of operation is thus: (allow for Doppler as necessary):
1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm the 10 minute
timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT the re-
peater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window will reset
the 10 minute timer.
[05282007]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: Operational - check operational schedule for current times!!

Current Mode: V/u

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplinks: 145.850 MHz FM
145.870 MHz FM
145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK

Callsign: 8J1JCS
Digitalker: 435.910 MHz

Mode and Antenna Polarization:
V: RHCP
U: RHCP

For current operational schedule for FO-29:
http://www.ne.jp/asahi/m-arai/gkz/satinfo/fo29e.htm

JARL English webpage: http://www.jarl.or.jp/English/5_Fuji/
ejasmenu.htm

AMSAT-NA Webpage:
http://www.amsat.org/amsat-new/satellites/satInfo.php?satID
=5&retURL=/satellites/status.php

Mineo Wakita, JE9PEL, has created a simple decoder program for FO29's
CW telemetry downlink: http://www.ne.jp/asahi/hamradio/je9pel/fo29cwts
.htm
[0820007]
=====
AO-27 AMRAD
Catalog number: 22825
Launch date: September 26, 1993

Status: OFF - Reload software

Current Mode: V/u

Uplink: 145.850 MHz FM
Downlink: 436.797 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Official Webpage: http://www.ao27.org
[10092008]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Operational depending on amount of Sunlight

Current Mode: Listen before transmitting

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons: 29.502 MHz CW

145.972 MHz CW
435.100 MHz CW
2304.100 MHz CW

Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

The AO-7 Logbook and Resource Website:
http://www.planetemily.com/ao7/

AO-7 Usage Guidelines on the AO-7 Log and Resource Site located at:
http://www.planetemily.com/ao7
[05282007]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12252008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-360.S2
WSR 360 Part 2 12/25/2008

AMSAT NEWS SERVICE BULLETIN 360.S2
FROM AMSAT HQ SILVER SPRING, MD, December 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-360.S2

RS-30 Radio Sputnik 30 (Yubileiny)
Catalog Number:
Launch Date: May 23, 2008

Status: Operational

Curent Mode: Telemetry
Audio
Images

Downlinks: 435.315 MHz
435.215 MHz
[05292008]
=====
CAPE-1
Catalog Number: 31130
Launch Date: April 17,2007

Status: Intermittent

Current Mode: /u

TLM Downlink: 435.245 MHz 9600 bs FSK AX.25
CW Beacon: 435.245 MHz CW

Callsign: K5USL

TLM and CW interchange every 30 seconds.
[11152007]
=====
CP3
Catalog Number: 31128
Launch Date: April 17,2007

Status: Operational

Current Mode: /u

Downlink: 436.845 MHz 1200 bps AFSK AX.25
[07302007]
=====
PO-63 PEHUENSAT-1
Catalog Number: 29712
Launch Date: January 10, 2007

Status: In Orbit

Current Mode: V/v

Uplink/Downlink: 145.825 Mhz FM
Voice Recorder: 145.825 Mhz FM
[02052007]
=====
NO-62 FCAL
Catalog Number: 29667
Launch Date: December 21, 2006

Status: Operational

Current Mode: /u

Downlink: 437.385 Mhz APRS AX25

Downlink ID: KD4HBO

Website: http://eng.usna.navy.mil/~bruninga/fcal.html
[10222007]
=====
GENESAT-1 ?O-??
Catalog Number: 29655
Launch Date: December 16, 2006

Status: Operational

Current Mode: /u

Telemetry Beacon Downlink: 437.0670 MHz AFSK 1200 BPS

Official webpage: http://www.crestnrp.org/genesat1/ahc.html
[01082007]
=====
CO-58 CubeSat XI-V
Catalog number: 28895

Launch Date: October 27, 2005

Status: Operational - CW Beacon only

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200bps using AFK protocol
Beacon: 437.2750 MHz CW

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/

Pictures received by Mineo Wakita - JE9PEL:
http://www.ne.jp/asahi/hamradio/je9pel/
[03262007]
=====
CO-57 CubeSat XI-IV
Catalog number: 27848
Launch date: June 30, 2003

Status: Operational

Current Mode: /u

Beacon: 436.8475 MHz CW
Telemetry : 437.4900 MHz AFSK 1200 BPS

Callsign: JQ1YGW

Official Webpage: http://www.space.t.u-tokyo.ac.jp/cubesat/mission/V/
[01082007]
=====
CO-56 CUTE-1.7 + APD
Catalog number: 28941
Launch date: February 21, 2006

Status: Operational?

Uplink: 1268.5000 MHz GMSK 9600 BPS
Downlink: 437.4700 MHz 1200 FM ax25 or SRLL (ACTIVE only near Japan?)

Telemetry Beacon: 437.3850 CW
Callsign: JQ1YPC

Information webpage:
http://lss.mes.titech.ac.jp/ssp/spacerium/cute1blog/
[12182008]
=====
CO-55 CUTE-1
Catalog Number: 27844
Launch date: June 30, 2003

Status: Operational

Current Mode: CW downlink worldwide
AX25 Packet with uplink command over Japan only

Mode U Telemetry
Downlink: 437.4000 MHz AFSK 1200 BPS

Mode U TLM Beacon
Downlink: 436.8375 MHz CW
[08132007]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Operational

Current Modes: FM Repeater - V-FM/u-FM
BBS - L-9k6/u-9k6
Telemetry - OFF

Analog voice downlink: 435.300 MHz FM
435.150 MHz FM
2401.200 Mhz FM
Analog voice uplink: 145.880 MHZ FM
145.880 MHz USB
145.920 MHz FM
1268.700 MHz FM 67Hz PL tone
Digital Downlinks: 435.150 MHz FM 38k4 PBP, 1 watt output
435.150 MHz FM 9k6 Pacsat Broadcast Protocol
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM 9k6 Pacsat Broadcast Protocol
1268.700 mhz FM 9k6 PBP Digital
Beacon: 435.150 MHz

Mode and Antenna Polarization:
T: Linear
V: Linear
U: TX A (usually digital)LHCP
TX B (usually analog) RHCP
L: Linear
S: Linear

Broadcast: PECHO-11
BBS: PECHO-12

Official Webpage: http://www.amsat.org/amsat-new/echo/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=19
[12252008]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Semi-operational

Current Mode: V/v

General Usage Uplink/Downlink: 145.827 MHz 1200 Baud
Special Usage Downlink: 144.390 Mhz 1200 Baud

PCSAT APRS page: http://pcsat.aprs.org

aprstlm Telemetry Decoder program:
http://www.xciv.org/~iain/aprstlm/v1.2/
[09242007]
=====
GO-32 Gurwin TechSat-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Non-Operational

Current Modes: V/U
L/U

Downlink: 435.225 MHz FM (9600-baud FSK)
435.325 Mhz - Not Available - temperature problems
Uplinks: 145.850 FM
145.890 FM
145.930 FM
1269.700 FM
1269.800 FM
1269.900 FM

Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[12042007]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launch Date: March 1, 1984

Status: Semi-operational.

Current Mode: /v

Telemetry Downlink: 145.825 MHz FM 1200 AFSK
UHFBeacon: 435.025 MHz
Mode-S Beacon: 2401.500 MHz

Mode and Antenna Polarization:
V: RHCP
S: LHCP

Webpage: http://www.users.zetnet.co.uk/clivew/
MPEG3 files: http://www.ne.jp/asahi/hamradio/je9pel/uo11tlme.htm

[01242008]
=====
RS-22 RADIO SPORT RS-22
Catalog number: 27939
Launch Date: September 27, 2003

Status: Operational - 70cm cw only

Current Mode: /u

CW Beacon - 435.352 MHz
145.818 MHz
[08062007]
=====
Can X-2
Catalog number:
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.478 MHz GFSK

For the latest project status update please visit the Can X-2 web
page: http://www.utias-sfl.net/nanosatellites/CanX2/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=46
[05292008]
=====
AAUSAT-II
Catalog number: 32788
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.425 MHz

For the latest project status update please visit the AAUSAT-II web
page:
http://www.aausatii.aau.dk/homepage/index.php?language=en&page=home

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=60
[05292008]
=====
CO-65 Cute-1.7+APD II
Catalog number: 32785
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.475 MHz 9k6 Packet
Uplink: 1267.600 Mhz

For the latest project status update please visit the Cute-1.7+APD II
web page: http://lss.mes.titech.ac.jp/ssp/cute1.7/index_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=78
[07312008]
=====
Compass-1
Catalog number: 32787
Launch Date: April 28, 2008

Status: IN ORBIT

Downlink: 437.275 Mhz CW
437.405 MHz Packet

For the latest project status update please visit the Compass 1 web
page: http://www.raumfahrt.fh-aachen.de/

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=52
[05292008]
=====
CO-66 Seeds II
Catalog number:
Launch Date: April 28, 2008

Status: Operational

Downlink: 437.485 MHz

For the latest project status update please visit the Seeds 2 web
page: http://cubesat.aero.cst.nihon-u.ac.jp/english/main_e.html

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=36
[12042008]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational

Current Active Modes: FM Repeater - U/v
Voice - V/v
BBS - V/v
APRS - V/v
SSTV - V/v

Expedition 18 Crew:
Commander: Mike Fincke KE5AIT
Flight Engineer: Yury Lonchakov RA3DT
Flight Engineer: Sandra Magnus KE5FYE

Available Modes and Frequencies:

Digital/APRS:
Worldwide packet uplink: 145.825 MHz FM 9k6
Worldwide packet downlink: 145.825 Mhz FM 9k6

Voice:
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Crossband Repeater:
Repeater Uplinks: 1269.650 MHz FM
437.800 MHz FM
Repeater Downlink: 145.800 MHz FM

SSTV Robot 36:
Downlink: 145.800 MHz FM

Mode and Antenna Polarization:
V: Linear
U: Linear

Callsigns:
Belgian: OR4ISS
German: DP0ISS
Russian: RS0ISS
RZ3DZR
United States: NA1SS
Packet Mailbox: RS0ISS-11
Digipeater callsign: ARISS

Official ARISS Webpage: http://www.rac.ca/ariss
ISS Fan Club Webpage: http://www.issfanclub.com
APRS tracking page: http://www.ariss.net/

ISS Daily Crew Schedule: http://spaceflight.nasa.gov/station/timelines
Remember that the crew operates on UTC time. Also, all of the time
line is NOT translated from Russian and posted.
[12252008]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-360.S3
WSR 360 Part 3 12/25/2008

AMSAT NEWS SERVICE BULLETIN 360.S3
FROM AMSAT HQ SILVER SPRING, MD, December 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-360.S3

THE FOLLOWING ARE IN ORBIT BUT ARE NON-OPERATIONAL AT THIS TIME:

CP4
Catalog Number: 31122

Launch Date: April 17,2007

Status: Non-Operational

Current Mode: /u

TLM Downlink: 437.325 MHz 1200 bps FSK AX.25
CW Beacon: 437.325 MHz CW

IARU coordination status page:
http://www.amsat.org.uk/iaru/finished_detail.asp?serial=79
[10022008]
=====
HO-59 HITSat
Catalog number: 29484
Launch date: September 22, 2006

Status: Non-Operational

Current Mode: /u

Telemetry Downlink: 437.4250 MHz AFSK 1200 BPS
Beacon: 437.2750 MHz CW

Callsign: JR8YJT
[10152007]
=====
NCUBE-2
Catalog number: 28897
Launch Date: October 27, 2005

Status: Still attached to XO-53 (SSETI)?

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
2407.250

Official Website: http://www.ncube.no
[05012006]
=====
XO-53 SSETI
Catalog number: 28894
Launch Date: October 27, 2005

Status: Non-operational

Voice Uplink: 437.250 MHz FM 67Hz CTCSS
Voice Downlink: 2401.835 MHz FM
Packet Up/Downlink: 437.250 MHz 9k6 packet
Packet Downlink 2401.835 MHz 38k4 packet

Official webpage: http://sseti.gte.tuwien.ac.at/WSW4/
Latest news: http://sseti.gte.tuwien.ac.at/WSW4/MOPWS/news.php
[01222007]
=====

UWE-1
Catalog Number: 28892
Launch Date: October 27, 2005

Status: Non=Operational

Mode U Telemetry
Downlink: 437.5050 MHz 9600 AFSK
[08132007]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Non-operational.

Uplink: 435.275 MHz 1200-baud AFSK
Downlink: 145.825 MHz 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

Official webpage: http://amend.gmxhome.de
[01222007]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launch date: September 26, 2000

Status: Non-Operational

Uplinks: 145.850 MHz
145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz

Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to
commercial land and weather imaging payloads offers FM and FSK
Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as
a collaborative effort between the Malaysian government and Surrey
Satellite Technology Ltd.
[007302007]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater

Digi Callsign: KE6QMD

Everyone is welcome to use the digipeating/APRS features of Sapphire,
as per the user service agreement located at the following URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
SO-42 SAUDISAT-1B
Catalog number: 26549
Launch date: September 26, 2000

Status: Non-Operational

Downlink: 437.075 MHz

Broadcast Callsign: SASAT2-11
BBS: SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[01222007]
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink: 145.850 MHz
Downlink: 436.775 MHz

Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[01222007]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplinks

V-band: 145.840 - 145.990 MHz CW/LSB
U-band: 435.550 - 435.800 MHz CW/LSB
L1-band: 1269.250 - 1269.500 MHz CW/LSB
L2-band: 1268.325 - 1268.575 MHz CW/LSB

Downlinks

S2-band: 2401.225 - 2401.475 MHz CW/USB

K-band: 24048.010 - 24048.060 MHz CW/USB
Beacon: 2401.323 MHz
24048.035 MHz

P3-D Telemetry Beacons (IHU)

BEACON General Beacon(GB) Middle Beacon(MB) Engineering Beacon(EB)
2 m none 145.898 MHz none
70cm 435.438 MHz 435.588 MHz 435.838 MHz
13cm(1) 2400.188 MHz 2400.338 MHz 2400.588 MHz
13cm(2) 2401.173 MHz 2401.323 MHz 2401.573 MHz
3cm 10450.975 MHz 10451.125 MHz 10451.375 MHz
1.5cm 24047.885 MHz 24048.035 MHz 24048.285 MHz
[07162007]
=====
OO-38 OPAL
Catalog Number: 26063
Launch Date: January 27, 2000

Status: Non-Operational

Mode U TLM Beacon
Downlink: 437.1000 MHz 9600 FSK
[08132007]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launch date: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlinks: 437.025 MHz
437.400 MHz

Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA web
site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[01222007]
=====
SO-35 SUNSAT
Catalog Number: ?
Launch date:February 23, 1999

Status: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz
145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[01222007]
=====
PO-34 PANSAT
Catalog number: 25520
Launch date: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink: 436.500 MHz

Official Webpage: http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launch date: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm
[09042006]
=====
TO-31 TMSAT-1
Catalog number: 25396
Launch Date: July 10, 1998

Status: Non-operational

Uplink: 145.925 MHz 9600 baud FSK
Downlink: 436.925 MHz 9600 baud FSK

Broadcast callsign: TMSAT1-11
BBS: TMSAT1-12
[05012006]
=====
PO-28 POSAT-1
Catalog number: 22829
Launch Date: September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 429.950
Uplink: Not until handover back to Amatuer usage

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/po28.html
POSAT-1 webpage:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
[01012006]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: PSK carrier only

Current Mode:

Uplinks: 145.875 MHz FM 1200-baud
145.900 MHz FM 1200-baud
145.925 MHz FM 1200-baud
145.950 MHz FM 1200-baud

Downlink: 435.808 MHz PSK

Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Official webpage: http://www.itamsat.org
AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/io26.html
[01212007]
=====
KO-25 KITSAT
Catalog number: 22828
Launch date: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM 9600-baud FSK
Downlink: 436.500 MHz FM

Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
KO-23 KITSAT
Catalog number: 22077
Launch date: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM

Broadcast Callsign: HLO1-11
BBS: HLO1-12
[01222007]

=====
UO-22 UOSAT
Catalog number: 21575
Launch date: July 17, 1991

Status: Non-Operational

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM

Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12
[01222007]
=====
AO-21 AMSAT-OSCAR 21
Catalog Number: 21087
Launch Date: January 29, 1991

Status: Non-Operational

Uplink: 435.041 MHz FM DSP
Downlink: 145.983 MHz FM DSP
[01222007]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Beacons: 435.795 MHz CW
435.910 MHz AX25

Voice Transponder:
Uplink: 145.900 to 146.000 MHz CW/LSB
Downlink: 435.800 to 435.900 MHz CW/USB

Digital Transponder:
Uplinks: 145.850 MHz
145.870 MHz
145.890 MHz
145.910 MHz
Downlink: 435.910 MHz

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[01152007]
=====
LIBERTAD-1
Catalog Number: 31129
Launch Date: April 17,2007

Status: Non-Operational

Current Mode: V/u APRS Packet ax25

Callsign: 5K3L

Uplink: 145.825 MHz 1200 AFSK ax25 APRS
Downlink: 437.399 MHz 1200 AFSK ax25 APRS

Telemetry Beacon: 437.4050 MHz 1200 AFSK ax25
[10222007]
=====
LO-19 LUSAT
Catalog number: 20442
Launch date: January 22, 1990

Status: CW Beacon only

Uplinks: 145.840 MHz 1200-baud Manchester FSK
145.860 MHz 1200-baud Manchester FSK
145.880 MHz 1200-baud Manchester FSK
145.900 MHz 1200-baud Manchester FSK

CW downlink: 437.125 MHz

Digital downlink: 437.150 MHz SSB (RC-BPSK 1200-baud PSK)

Broadcast Callsign: LUSAT-11
BBS: LUSAT-12o

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[01222007]
=====
WO-18 WEBERSAT
Catalog Number: 20441
Launch Date: January 22, 1990

Status: Non-Operational

Downlink: 437.104 MHz SSB 1200 Baud PSK AX.25
[05012006]
=====
DO-17 Dove
Catalog Number: 20440
Launch Date: January 22, 1990

Status: Non-operational.

Downlink: 145.825 MHz FM 1200 Baud AFSK
Beacon: 2401.220 MHz
[05012006]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: SEMI-Operational

Current Mode: V/u

Uplink: 145.900 MHz FM 1200-baud Manchester FSK (reserved)
145.920 MHz FM VOICE
145.940 MHz FM 1200-baud Manchester FSK (reserved)
145.960 MHz FM 1200-baud Manchester FSK (reserved)

Downlink: 437.026 MHz USB VOICE
(1200-baud PSK - MBL Telemetry Only)

Mode-S Beacon: 2401.1428 MHz [NO FUTURE OPERATIONS PLANNED]

Mode and Antenna Polarization:
U: RC 437.050 MHz RHCP
PSK 437.026 MHz LHCP
V: Linear

Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

AO-16 AMSAT Webpage: http://www.amsat.org/amsat/sats/n7hpr/ao16.html
[12252008]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launch date: January 22, 1990

Status: Non-operational

Uplink: 145.975 MHz FM
Downlink: 435.070 MHz FM
[05092004]
=====
FO-12 Fuji-OSCAR 12
Catalog Number: 16909
Launch Date: August 12, 1986

Status: Non-Operational

Mode V/U (J) Linear Transponder (Inverting):
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.8000 - 435.9000 MHz SSB/CW

Mode V/U (J) Packet:
Uplink: 145.8500 MHz MFSK 1200 BPS
Uplink: 145.8700 MHz MFSK 1200 BPS
Uplink: 145.8900 MHz MFSK 1200 BPS
Uplink: 145.9100 MHz MFSK 1200 BPS

Downlink 435.9100 MHz PSK 1200 BPS

Telemetry Beacon: 435.7950 MHz SSB/CW
[01152007]
=====
AO-10 OSCAR 10

Catalog number: 14129
Launch Date: June 16, 1983

Status: Non-operational

Uplink: 435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB

Beacon: 145.810 MHz (unmodulated carrier)

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
AO-8 AMSAT-OSCAR 8
Catalog Number: 10703
Launch Date: March 3, 1978

Status: Non-Operational

Mode V/U (J) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink 435.1990 - 435.2000 MHz SSB/CW

Mode V/U (J) TLM Beacon: Non-Operational
Downlink 435.0950 MHz CW

Mode V/A (A) Linear Transponder (Non-Inverting): Non-Operational
Uplink: 145.8500 - 145.9000 MHz SSB/CW
Downlink 29.4000 - 29.5000 MHz SSB/CW

Mode V/A (A) TLM Beacon: Non-Operational
Downlink 29.4020 MHz CW
[01152007]
=====
AO-6 AMSAT-OSCAR 6
Catalog Number: 06236
Launch Date: October 15, 1972

Status: Non-Operational

Uplink: 145.9000 - 146.0000 MHz SSB/CW
Downlink: 29.4500 - 29.5500 MHz SSB/CW
Beacons: 29.450 MHz
435.100 MHz
[01312008]
=====
AO-5 Australis-OSCAR 5
Catalog Number: 04321
Launch Date: January 23, 1970

Status: Non-Operational

Telemetry Beacons: 144.0500 MHz CW
29.4500 MHz CW
[01152007]
=====
OSCAR III
Catalog Number: 01293
Launch Date: March 09, 1965

Status: Non-Operational

Uplink: 145.9750 - 146.0250 MHz SSB/CW
Downlink: 144.3250 - 144.3750 MHz SSB/CW
[01012007]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB

Beacon 1: 29.352 MHz (intermittent)
Beacon 2: 29.398 MHz

SSB meeting frequency: 29.380 MHz (unofficial)
[06202004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.260 to 21.300 MHz CW/USB
Downlink: 145.860 to 145.900 MHz CW/USB

Beacon: 145.860 MHz

Robot: 145.908 MHz
[05232004]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launch date: February 5, 1991

Status: Non-operational

Uplink: 21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB

Beacon: 29.408 MHz

Robot: 29.454 MHz
[05232004]

NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-360.S4
WSR 360 Part 4 12/25/2008

AMSAT NEWS SERVICE BULLETIN 3603.S4
FROM AMSAT HQ SILVER SPRING, MD, December 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-360.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE PROPOSED FOR LAUNCH
AT THIS TIME:

XW-1
Catalog Number:
Proposed Launch Date: Summer 2009?

Status: Design Phase

Proposed Equipment:
Beacon: 435Mhz, CW 20dBm
Linear transponder: RX: 145Mhz, TX: 435Mhz, 40KHz, 30dBm
FM Transponder: RX: 145Mhz, TX: 435Mhz, 16KHz, 30dBm
Digital store and forward transponder: RX: 145Mhz, TX: 435Mhz, 16KHz,
30dBm

IARU coordination status page:
http://www.amsat.org.uk/iaru/formal_detail.asp?serial=108
[10092008]
=====
Phase 5a Mars Mission AO-??
Catalog Number:
Proposed Launch Date: 2009 or 2011

Status: Design Phase

For the latest project status update please visit the AMSAT-DL P5-A
web page:
http://ticket-to-mars.org
[01222007]
=====
PHASE 3E AO-??
Catalog number:
Proposed Launch Date: Late 2008

Status: Under Construction

For the latest project status update please visit the AMSAT-DL P3-E
web page:
http://www.amsat-dl.org/p3e/
[01222007]
=====
Eagle AO-??

Catalog Number:
Proposed Launch Date: Early/Mid 2009

Status: Design Phase

For the latest project status updates please visit the AMSAT-NA web page: http://www.amsat.org
[01222007]
NNNN
/EX

SB SAT @ AMSAT W8ISS ANS-360.S5
WSR 360 Part 5 12/25/2008

AMSAT NEWS SERVICE BULLETIN 360.S5
FROM AMSAT HQ SILVER SPRING, MD, December 25, 2008
TO ALL RADIO AMATEURS
BID: $ANS-360.S5

THE FOLLOWING SATELLITES HAVE RE-ENTERED OR HAVE BEEN RETURNED SAFELY:

NO-61 ANDE
Catalog Number: 29664
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: December 25, 2007

Uplink/Downlink: 145.825 Mhz FM APRS AX25
[01032008]
=====
NO-60 RAFT-1
Catalog Number: 29661
Launch Date: December 21, 2006

Status: Re-Entered
Re-entered: May 30, 2007

Main Downlink: 145.825 Mhz FM APRS AX25
APRS Uplink: 145.825 MHz FM APRS AX25
Voice/PSK31 Uplink: 28.120 MHz

Packet to Voice ID: RAFT
[06112007]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

Mailing address:
AMSAT-NA
850 Sligo Avenue, Suite 600
Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

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In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satellite Report Editor is James French, W8ISS.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen, G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to: ans-editor{at}
amsat.org
NNNN
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219. ANS-363 AMSAT News Service Weekly Bulletins

Newsgroup: rec.radio.amateur.space
Date: 2008-12-28 17:28:01 UTC
From: JoAnne Maenpaa <k9jkm@comcast.net>
Message-ID: <000101c96911$9cc7cc70$d6576550$@net>
Source record: 699
Cross-posted to: rec.radio.amateur.space,rec.radio.info

AMSAT NEWS SERVICE
ANS-363

ANS is a free, weekly, news and information service of AMSAT North America, The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

In this edition:
* SKN on OSCAR 2009 This Week
* AO-51 Schedule to Support SKN and Kids Day
* Richard Garriott Interview Available Online
* ARISS 25th Commemorative Event to Feature L/V Repeater This Week
* ARISS Status - 22 December 2008

SB SAT @ AMSAT $ANS-363.01
SKN on OSCAR 2009 This Week

AMSAT News Service Bulletin 363.01
From AMSAT HQ SILVER SPRING, MD.
December 28, 2008
To All RADIO AMATEURS
BID: $ANS-363.01

Ray Soifer, W2RS extends the annual cordial invitation to all radio amateurs worldwide to participate in AMSAT's Straight Key Night (SKN) on OSCAR 2009.

Participating in SKN on OSCAR 2009 is easy. No rules, no scoring and no need to send in a log. Just operate CW through any OSCAR between 0000 and 2400 UTC on 1 January 2009, using a straight hand key.

In keeping with the friendly nature of this event, all participants are encouraged to nominate someone they worked for "Best Fist." Your nominee need not have the best fist of those you heard, just of those you worked. Please send your nomination to w2rs@amsat.org. A list of those nominated will appear in ANS and The AMSAT Journal.
CU SKN!

[ANS thanks Ray Soifer, W2RS for the above information]

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SB SAT @ AMSAT $ANS-363.02
AO-51 Schedule to Support SKN and Kids Day

AMSAT News Service Bulletin 363.02
From AMSAT HQ SILVER SPRING, MD.
December 28, 2008
To All RADIO AMATEURS
BID: $ANS-363.02

AMSAT VP of Operations, Drew Glasbrenner, KO4MA, reminds everyone
that AO-51 will
be configured to support two upcoming special events. For the first time
AO-51
will be configured to support CW operations during the annual SKN Event.
Following SKN the uplink will be reconfigured back to the more
traditional FM/FM
up and downlinks to support the ARRL's Kids Day event.

December 29 - January 2

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

SSB/FM Repeater, V/U (CW QSOs only on Straight Key Night)
Uplink: 145.880 MHz USB
Downlink: 435.150 MHz FM

January 3

FM Repeater, V/U
Uplink: 145.920 MHz FM
Downlink: 435.300 MHz FM

FM Repeater, V/U (ARRL Kid's Day, QSOs between or with kids ONLY)
Uplink: 145.880 MHz FM
Downlink: 435.150 MHz FM

[ANS thanks Drew, KO4MA, for the above information]

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SB SAT @ AMSAT $ANS-363.03
Richard Garriott Interview Available Online

AMSAT News Service Bulletin 363.03
From AMSAT HQ SILVER SPRING, MD.
December 28, 2008
To All RADIO AMATEURS
BID: $ANS-363.03

Space traveler Richard Garriott, W5KWQ, ha been interviewed by science
fiction writer Tracy Hickman about Garriott's recent visit to the
International Space Station. During the session, W5KWQ talked about his

experience of operating amateur radio on orbit and conversing with the ham community worldwide.

The entire interview is 2 hours and 45 minutes in duration. Its available in 3 installments. You will find it at http://feeds.feedburner.com/Dragonhearth

[ANS thanks Newsline for the above information]

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SB SAT @ AMSAT $ANS-363.04
ARISS 25th Commemorative Event to Feature L/V Repeater This Week

AMSAT News Service Bulletin 363.04
From AMSAT HQ SILVER SPRING, MD.
December 28, 2008
To All RADIO AMATEURS
BID: $ANS-363.04

To date, the ISS crew has configured the radio to support cross-band repeater
operations, they have supported some SSTV downlinks and we have had the opportunity to participate in a special test of 9600 baud packet radio operations
on the simplex frequency of 145.825 MHz.

Specifically, December 28-January 3, we plan to reconfigure the Crossband repeater for a special experiment. This will be a test of our L-Band uplink capability, which, to date, has not been proven out. Plan for an uplink of 1269.65 MHz and and downlink on the standard frequency 145.80 MHz using low power. Given the substantial cable losses of the L-band system, we hope some "big
guns" are able to penetrate through, keep up with doppler, and make the connection.

We will provide more updates in the near future. We would like to remind everyone that ISS flight requirements related to EVA and vehicle activity may
require the radio to be off for some portion of this schedule. And school contacts and general QSO opportunities by the crew will also preempt this schedule for short periods of time. (But remember that if you hear these, you
still qualify for a commemorative certificate).

Frank concluded, "In the meantime, enjoy the ARISS ops on ISS! And congratulations to Owen Garriott, W5LFL, on the 25th anniversary of his historic
flight!!"

[ANS thanks Frank, KA3HDO, AMSAT-NA V.P. for Human Spaceflight Programs and ARISS International Chairman for the above information]

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SB SAT @ AMSAT $ANS-363.05
ARISS Status - 22 December 2008

AMSAT News Service Bulletin 363.05
From AMSAT HQ SILVER SPRING, MD.
December 28, 2008
To All RADIO AMATEURS
BID: $ANS-363.05

1. Upcoming School Contacts

An Amateur Radio on the International Space Station (ARISS) contact has been scheduled with Technopolis in Mechelen, Belgium on Monday, December 29 at 11:43
UTC via telebridge station WH6PN in Hawaii. The mission of Technopolis is to bring science and technology to the public. The center has permanent and temporary exhibits and organizes workshops, school activities and other outreach
activities. The ARISS contact will be open to all school children 6 -18 years of
age and will be supported through a workshop, lecture or science show.

2. Canadian School Contact Successful

Students from King George Elementary School in Moose Jaw, Saskatchewan, Canada
took part in a question and answer session with Sandra Magnus, KE5FYE. The Amateur Radio on the International Space Station (ARISS) contact took place on
Monday, December 15. Ten students were able to ask one question each of the astronaut as an audience of 320 looked on. Ray Boughen, Minister of Education
Provincial Parliament, Dale McBain, City of Moose Jaw Mayor (both former educators) and Brenda Edwards, Director of Education for Prairie South School
Division attended. Television stations taped the event and interviewed the children. Radio station CHAB interviewed the school coordinator. The Moose Jaw
Times Herald printed an article covering the contact. See:
http://www.mjtimes.sk.ca/index.cfm?sid=201052&sc=3

The story includes links to the contact video:
http://www.mjtimes.sk.ca/index.cfm?main=broadcast&bcid=10109

Principal Ward Milligan commented, "It was an awesome 'once in a lifetime experience' that will become more important in the lives of these students as
they look back upon this event in years to come. Having a personal contact with
someone in space increased the students' interest in space by three fold. Sandra Magnus was very enthusiastic and answered the students' questions in a
manner they could relate to. She was very encouraging of the students. It

was
an inspirational and moving experience."

3. Italian Students Radio ISS

On Thursday, December 18, students from Scuola Elementare Faleriense "Gianni Rodari" in Porto Sant'Elpidio, Italy participated in an Amateur Radio on the International Space Station (ARISS) contact with Mike Fincke, KE5AIT as over three hundred students, teachers and parents gathered for the event. Twenty-one
students questioned the astronaut and Season's Greetings were exchanged. RAI3
Regional Television and some local media and newspapers covered the event. The
audio was fed into the EchoLink servers. For more information, including photos
and audio, go to: www.ariss-eu.org/2008_12_18.htm

The Corriere News ran an article (in Italian):
http://www.corrierenews.it/index.php/corrierenews3100/content/view/full/2202
5

ESA mentions the recent Marco Polo, Circolo Didattico San Giuseppe and Gianni
Rodari contacts in this story (also in Italian):
http://www.esa.int/esaCP/SEMXK4TTGOF_Italy_2.html

4. ARISS International Meeting Held

The Amateur Radio on the International Space Station (ARISS) team meeting was
held on Tuesday, December 16. Agenda items included the next face-to-face meeting, SuitSat-2 development status and the ARISS special event. Minutes have
been posted to the ARISS Web site. See:
http://www.rac.ca/ariss/arisstel2008-12-16.htm

5. Astronaut Training Status

Astronaut Michael Barratt, KD5MIJ, took a refresher course on the Amateur Radio
on the International Space Station (ARISS) equipment and operations on Wednesday, December 17. Barratt is looking forward to supporting the program during his time on board the ISS as an Expedition 19 crew member. Expedition 19
is the first half of the planned 6 person crew.

6. ARRL QST Covers ARISS News

The American Radio Relay League (ARRL) printed 4 Amateur Radio on the International Space Station (ARISS) news items in its January 2009 issue of QST.

Under "Media Hits" (page 12) is a lengthy paragraph about how the media coverage
for Richard Garriott, W5KWQ, was very prolific.

A story on pages 59-60 is about Andrea Hartlage, KG4IUM, a student at Georgia
Tech who's a ham and was quite interested in ARISS. She was friends with a ham
teacher at a middle school near her middle school; the teacher had applied for
an ARISS contact. The story is called "DXpedition to Planet Mars" and is about
Andrea's involvement in the Mars Desert Research Station (MDRS). It says at the
end that she wants to be an astronaut.

Two columns under "Happenings" (page 63) are titled "Richard Garriott; W5KWQ
Back on Terra Firma" which is about Richard and ARISS. It carries two pictures
- one of the students in Austin who contacted him during his mission in space
and the other is a photo of Richard.

"Grants Focus on the Future of Amateur Radio" (page 95) covers three groups that
won ARRL Foundation grants. One grant was given to the Eagle Scouts of Indiana
who took part in an ARISS contact at the Space Jamboree 2008. The grant received
was used to fund equipment for electronic building projects at the Space
Jamboree which helped scouts complete the electronics merit badge. The equipment
also served other regional and national scout gatherings to introduce amateur
radio. Another group that received an award was the Ann Arbor Hands-On Museum
which is scheduled for an ARISS contact on December 27. The money received
funded a ham station (and antenna) in the museum lobby.

7. ARRL and AMSAT Articles on ARISS Special Event

The American Radio Relay League (ARRL) ran a Web story about the 25th
anniversary of ham radio in space. It includes the latest news covering the
Amateur Radio on the International Space Station (ARISS) special event. See:
http://www.arrl.org/news/stories/2008/12/18/10509/?nc=1

The ARRL also issued a W1AW bulletin on the same subject and an article was
published in the ARRL Letter. See: http://www.arrl.org/arrlletter/08/1219/

[ANS thanks Carol, KB3LKI, for the above information]

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Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS